

**NAVY EXCHANGE GASOLINE STATION (NEX)
NAVAL AIR STATION
POINT MUGU, CALIFORNIA**

**February 2005 SEMI-ANNUAL
MONITORING REPORT**

Prepared for:
**NAVAL BASE VENTURA COUNTY
NAVAL AIR STATION POINT MUGU
ENVIRONMENTAL DIVISION, CODE N45V**

311 Main Road, Suite #1
Point Mugu, California 93042-5000

Prepared by:
URS
2020 East First Street
Santa Ana, California 92705

April 14, 2005

Anahita Nikbakht
Staff Engineer

J.S. Rowlands, R.G. 7013, C.HG. 715
Principal Geologist

TABLE OF CONTENTS

SECTION PAGE

1.0	INTRODUCTION	1-1
2.0	SYSTEM OPERATIONS AND MAINTENANCE	2-1
2.1	Operational History	2-1
3.0	GROUNDWATER MONITORING AND SYSTEM EFFECTIVENESS.....	3-1
3.1	Groundwater Monitoring Methods and Results.....	3-1
3.2	Groundwater Flow Direction	3-1
3.3	Groundwater Contaminant Trends and Distribution.....	3-2
3.3.1	Time Series Trends for TPH-g, BTEX and MTBE	3-2
3.3.2	Site-wide Distribution of TPH-g, Benzene and MTBE in Groundwater.....	3-3
3.4	Estimated Mass Of Petroleum Hydrocarbons Removed From The Vapor System.....	3-3
3.5	Estimated Mass Of Petroleum Hydrocarbons Removed From The Groundwater System.....	3-4
4.0	SUMMARY AND CONCLUSIONS	4-1
5.0	REFERENCES.....	5-1

LIST OF TABLES

1. CATOX System Vapor Phase Field Data (September 2004 - February 2005)
2. Liquid Ring Pump Liquid Phase Field Data (September 2004 - February 2005)
3. Historical Summary of Groundwater Monitoring Data (November 1988 – February 2005)
4. Total Amount of Hydrocarbons (in pounds) Removed From Vapor Phase (CATOX) (March 2004 – February 2005)
5. Total Amount of Benzene and TPH Removed From The Liquid Phase (Liquid Ring Pump) (March 2004 - February 2005)

LIST OF FIGURES

1. Site Vicinity Map
2. Site Map
3. Groundwater Elevation Contour Map – February 2005
4. TPH-g Iso-concentration Map – February 2005
5. Benzene Iso-concentration Map – February 2005
6. MTBE Iso-concentration Map – February 2005
7. Total Amount of Hydrocarbons Removed from the Vapor Phase
8. Gallons of Water Removed
9. Total Amount of Benzene and TPH Removed in the Liquid Phase (Liquid Ring Pump)

Point Mugu Building 161

LIST OF APPENDICES

- A. August 2004 Contour and Iso-concentration Maps
- B. Laboratory Analytical Reports
- C. Time Series Plots for Selected Monitoring Wells (TPH-g, BTEX, and MTBE)

1.0 INTRODUCTION

This report summarizes the remedial activities and February 2005 semi-annual monitoring data for the Navy Exchange Gasoline Station (referred to herein as the NEX site) located at the Naval Base Ventura County (NBVC), Naval Air Station (NAS) Point Mugu, California (Figures 1 and 2). The NEX site is centered around Building 161, and consists of an auto mechanic shop, a small convenience store, and two fuel dispenser islands that have a total of four dispensers. Adjacent, and south of Building 161, is a car wash (Building 156), while adjacent to and northwest of Building 161 is an unpaved area where four 12,000 gallon underground storage tanks (USTs) used to store gasoline are located.

The onsite remediation system, installed in 1996, consists of a high vacuum, dual-phase extraction (HVDPE) system that utilizes a combination of horizontal and vertical extraction wells to extract vapors and groundwater impacted with petroleum hydrocarbons. The vapors and groundwater are transferred to an above ground treatment system that employs a catalytic oxidizer (CATOX) for the extracted vapors and a carbon adsorption system for the extracted groundwater. The catalytic oxidizer system installation and operation procedures are described in the *Operation and Maintenance (O&M) Manual*, which was submitted to the California Regional Water Quality Control Board (LARWQCB), Los Angeles Region (Dames & Moore, 1996). Since 1996, the Navy and URS have made various enhancements to the system, including the addition of an air sparge system near the UST area. These enhancements are summarized in the report titled “*System Monitoring Results, June 2001 through December 2002 and Closure Criteria Addendum 2*” (URS, 2003a).

Since the initiation of remediation in 1996, the concentration of petroleum hydrocarbons in groundwater at the NEX site have decreased significantly, as did the lateral extent of the groundwater plume. However, in 2002 elevated concentrations of gasoline range hydrocarbons (TPH-g), benzene, and methyl tertiary butyl ether (MTBE) still remained in groundwater in the vicinity of the USTs. Based on these observations, the NEX site was divided into two areas of impact that originated from the primary leak detected in 1982. These areas of impact include:

- ◆ A primary area of impact (referred to as the “primary plume”) that encompasses the footprint of the NEX site, with the predominant contaminants comprised of TPH-g and benzene.
- ◆ A secondary isolated area of impact (referred to as the “secondary plume”) located in the vicinity of the existing USTs. Groundwater in this area exhibits elevated concentrations of residual TPH-g, benzene, and MTBE, which are believed to be associated with residual petroleum hydrocarbons trapped beneath the water table in the underlying fine-grained soil. Additionally, the existing USTs have been tested for tightness and have passed each test indicating the existing system is not a continuing source of petroleum hydrocarbons impacts to soil and groundwater.

Based on the observed stability of the primary groundwater plume, a groundwater rebound test was conducted between January and June of 2003 as proposed in the *December 2002 Modified Monitoring Plan for Navy Exchange Gasoline Station Site* (URS, 2002). The goal of the rebound test was to confirm stability of the primary groundwater plume southeast of Building 161 and to continue to remove

Point Mugu Building 161

hydrocarbons within the secondary plume that is northwest of Building 161. During the test period, stabilization and/or changes in groundwater concentrations were evaluated through groundwater monitoring. Because the groundwater concentrations remained relatively stable in the primary plume, the monitoring program was modified from quarterly to semi-annual monitoring as described in the *August 2003 Modified Monitoring Plan* (URS, 2003c). As described in the plan, semi-annual monitoring at the NEX site was proposed for February and August of each year. The conversion to semi-annual monitoring was approved by the LARWQCB in a letter dated September 24, 2003.

Based on further discussion with LARWQCB, additional groundwater assessment was deemed necessary in the vicinity of monitoring wells MW-6 and MW-13. The LARWQCB also indicated that the groundwater plume needed to be assessed to non-detect levels. In November 2003, in compliance with a Work Plan (URS, September 2003) approved by the LARWQCB, the extraction well network was expanded in the area surrounding the USTs and near groundwater monitoring wells MW-6, MW-13, and MW-33 with the installation of extraction wells EW-46 through EW-52. In addition, the groundwater monitoring well network was expanded with the installation of wells MW-34, MW-35, and MW-36, and conversion of extraction well EW-43 to a groundwater monitoring well. In November 2003 three wells MW-16, MW-22, and AS-1 were destroyed. The new extraction wells were brought on line in December 2003, and the first sampling of the newly installed groundwater monitoring wells was conducted during the February 2004 semi-annual event. The well locations are shown on Figure 2.

In April 2004, a Modified Monitoring Plan (2004 Update) was submitted to the LARWQCB. The plan was revised to include the newly installed groundwater monitoring wells MW-34, MW-35 and MW-36. On May 14, 2004 the LARWQCB approved the modified plan.

Emissions from the CATOX are monitored under a Ventura County Air Pollution Control District (VCAPCD) permit. Treated groundwater from the system is discharged to the municipal sewer system under the base-wide Industrial Wastewater Discharge Permit #OC-3 obtained from the City of Oxnard.

This report provides a summary of the O&M data for the reporting period and the February 2005 semi-annual groundwater monitoring results. Section 2 includes a summary of the system O&M activities, with groundwater monitoring results and system effectiveness data included in Section 3. The conclusions regarding the monitoring results are included in Section 4.

2.0 SYSTEM OPERATIONS AND MAINTENANCE

This section describes the operational status of the treatment system for the February 2005 semi-annual reporting period.

2.1 OPERATIONAL HISTORY

Operational and maintenance details for the system during the reporting period of September 2004 through February 2005 are described below. Unless otherwise stated, the system remained operational throughout the reporting period. The system is equipped with interlocks to prevent operation of the system outside its preset, safe operating range. Since the interlocks may shut down the system in the event of process surges, they also protect against unwanted releases of petroleum hydrocarbons and benzene into the atmosphere.

Date	System Operation and Maintenance
1/4/2005 to 1/19/2005	System shutdown due to circuit board failure.

During the reporting period, the extraction of groundwater and hydrocarbon vapors continued in the vicinity of the USTs northwest of Building 161, and in the vicinity of fuel dispenser islands to the southeast of Building 161. During the reporting period, various combinations of wells were extracted from in order to optimize the system. At any given time, approximately 17 to 24 wells were open for extraction in the area of the USTs and the primary plume, including the horizontal wells (HW-1, HW-2, and HW-5). As of February 28, 2005, the following wells were on-line: AS-2, AS-3, AS-4, EW-10, EW-22, EW-26, EW-34, EW-35, EW-36, EW-38, EW-39, EW-42, EW-45, EW-47, EW-49, EW-50, EW-51, EW-52, and HW-5.

During this period the wells were in the following operational modes:

- ◆ AS-2 and EW/AS-39 (air sparge mode throughout the period)
- ◆ AS-4 (air sparge mode since November 18, 2004)
- ◆ EW-5 (extraction mode from September 9 to September 24, 2005)
- ◆ EW-15 (extraction mode from October 15, 2004 to November 24, 2004)
- ◆ EW-19 (extraction mode from October 7, 2004 to October 11, 2004, and from November 18, 2004 to December 4, 2004)
- ◆ EW-27 (extraction mode from October 13, 2004 to October 28, 2004)
- ◆ EW-29 and EW-30 (extraction mode from October 12, 2004 to October 27, 2004)
- ◆ EW-37 (extraction mode from November 18, 2004 to December 4, 2004)
- ◆ EW-38 (extraction mode from September 9, 2004 to September 20, 2004, then converted to air sparge mode)

Point Mugu Building 161

- ◆ EW-41 (extraction mode from October 6, 2004 to October 15, 2004)
- ◆ EW-42 (air sparge mode from October 27, 2004)
- ◆ EW-46 (extraction mode from October 7, 2004 to October 12, 2004)
- ◆ EW-50 (extraction mode from September 9, 2004 to December 4, 2004, then converted to air sparge mode)
- ◆ EW-10, EW-22, EW-26, EW-34, EW-35, EW-36, EW - 44EW - 45, EW- 47, EW - 49, EW - 51, and EW - 52 (extraction mode throughout the period)
- ◆ HW-1 and HW-2 (extraction mode from September 9, 2004 to January 21, 2005,)
- ◆ HW - 5 (extraction mode from September 30, 2004)

For this reporting period, the operational data for the CATOX and liquid ring pump (LRP) are summarized in Tables 1 and 2, respectively (please see the Tables Section of this report).

3.0 GROUNDWATER MONITORING AND SYSTEM EFFECTIVENESS

Groundwater monitoring is currently being conducted at the NEX site on a semi-annual basis to evaluate the effectiveness of the remediation system and to assess progress toward achieving site closure. This evaluation is based on the following:

- ◆ Historic trends in TPH-g, benzene, and MTBE concentrations in groundwater beneath the site;
- ◆ The amount of total petroleum hydrocarbons removed from the vapor system; and
- ◆ The amount of TPH-g and benzene removed from the groundwater system.

Details of the evaluation are described below.

3.1 GROUNDWATER MONITORING METHODS AND RESULTS

The semi annual monitoring event was conducted as described in the April 2004 *Modified Monitoring Plan* (URS, 2004b) from February 9 to February 14, 2005. Depth to groundwater was measured in each well using a water level indicator. Water level measurements were collected on February 9, 2005 from wells scheduled for sampling. Additional water level measurements were collected from other monitoring wells on February 14, 2005. Thirteen groundwater monitoring wells (MW-2, MW-6, MW-13, MW-17, MW-21, MW-23X, MW-25, MW-31, MW-32, MW-33, MW-35, MW-36, and EW-43) were purged by hand bailing with disposable bailers on February 9 and sampled on February 10, 2005. Purge parameters including temperature, pH, conductivity, dissolved oxygen (DO) and oxygen reduction potential (ORP) were recorded during well purging. Well locations are shown on Figure 2.

Groundwater samples collected from the wells were submitted to American Analytics, a California Department of Health Services Accredited laboratory. The samples were analyzed for TPH-g, benzene, toluene, ethylbenzene, and xylenes (BTEX), and MTBE by EPA Method 8260B. Laboratory analytical reports and chain of custody documents are included in Appendix B. A historical summary of the groundwater monitoring data since 1988, including the February 2005 data, is presented in Table 3. Field measured dissolved oxygen (DO) levels in groundwater and measured groundwater elevations for each well are also included in Table 3.

3.2 GROUNDWATER FLOW DIRECTION

The groundwater elevation contour map (Figure 3) for the February 2005 event was generated from groundwater elevation data (Table 3). Groundwater elevations ranged from 2.68 feet above mean sea level (MSL) in well MW-32 to 10.13 feet above MSL in well MW-10. Based on the water level contour data, no flow direction is evident. As seen on Figure 3, there was a localized depression in the groundwater surface in the vicinity of the UST area. This depressed groundwater surface coincides with the area where groundwater extraction was periodically occurring. The August 2004 groundwater elevation contours show a similar depression in this area. The August 2004 contour map is included in Appendix A.

3.3 GROUNDWATER CONTAMINANT TRENDS AND DISTRIBUTION

Selected wells were evaluated in order to provide an understanding of the groundwater trends with respect to the chemicals of concern (TPH-g, benzene, and MTBE). These wells were grouped as follows:

- ◆ Perimeter compliance wells (downgradient of the primary plume) located in the southern portion of the site near the Oxnard Drainage Channel: MW-17, MW-21. Well MW-34 that is located downgradient of well MW-6 was covered with concrete and could not be located. Efforts will be made to locate the well using geophysical instruments. If these efforts fail, a new monitoring well will be installed in the same area as well MW-34.
- ◆ Site perimeter wells downgradient from both plumes (primary and secondary plumes) and located in the south-southeastern portion of the site: MW-6 and MW-25;
- ◆ Wells surrounding the existing USTs and within the area defined as the secondary plume (near NEX gas station): MW-2, MW-32, EW-19/MW-30 (EW-19 is now used as an extraction well and MW-30 was destroyed), MW-31, MW-35, and EW-43;
- ◆ Wells downgradient from the secondary plume and also located in the center of the primary plume: MW-22/MW-33 (MW-22 was destroyed), and MW-23X; and
- ◆ Upgradient perimeter wells located north-northeast of the groundwater plumes: MW-13, and MW-36 (MW-36 is located upgradient of MW-13).

3.3.1 Time Series Trends for TPH-g, BTEX and MTBE

Time series plot for the wells listed above are included in Appendix C and the DO levels are included in Table 3. Trends in these data are further discussed below:

Perimeter Compliance Wells (MW-17 and MW-21) – Since the initiation of the remedial efforts at the NEX site, the concentrations of TPH-g and BTEX compounds in groundwater have declined significantly in this area of the site. Groundwater concentrations of TPH-g, BTEX, and MTBE in samples collected from these wells continue to show a declining to stable trend.

Site Perimeter along the South-Southeastern Portion of the Site (MW-6 and MW-25) – Since the initiation of the remedial efforts at the NEX site, the concentrations of TPH-g and BTEX in groundwater have significantly declined in this area of the site. Groundwater concentrations of TPH-g, BTEX, and MTBE in samples collected from these wells continue to show a declining to stable trend.

Wells Surrounding the Existing USTs and in the Area of the Secondary Plume (MW-2, MW-32/EW-19/MW-30 [MW-30 abandoned], MW-31, MW-35, and EW-43) - Although there has been a general decline in the groundwater concentrations of TPH-g and BTEX in groundwater samples collected from wells near the existing USTs, the concentration of MTBE in groundwater in this area has fluctuated.

Wells Downgradient from the Secondary Plume and also Located in the Center of the Primary Plume (MW-33/ MW-22 [MW-22 abandoned] and MW-23X) - Since the initiation of the

remedial efforts at the NEX site, the concentrations of TPH-g and BTEX in groundwater samples collected from wells in this area have significantly declined.

Upgradient Perimeter Wells Located North and East of the Plumes: (MW-13, and MW-36)
Groundwater concentrations of TPH-g and BTEX in samples collected from the upgradient wells MW-13 and MW-36 have shown an overall declining trend since groundwater monitoring began. TPH-g has been the primary compound detected in groundwater in the upgradient perimeter wells, while MTBE has not been detected.

3.3.2 Site-wide Distribution of TPH-g, Benzene and MTBE in Groundwater

Iso-concentration maps presenting the distribution of TPH-g, benzene, and MTBE in groundwater at the site are presented in Figures 4 through 6, and are discussed further below. For comparison, the August 2004 iso-concentration maps are included in Appendix A.

TPH-g Iso-concentrations - As illustrated on Figure 4, the TPH-g concentrations in groundwater at 10,000 µg/L have been detected in the area of the USTs and encompassed monitoring wells MW-32 and MW-33. In the area northeast of Building 161 at monitoring well MW-13, TPH-g concentrations in groundwater were found to be above 1,000 µg/L.

Benzene Iso-concentrations – As illustrated on Figure 5, the benzene concentrations at or above 1,000 µg/L were found in the area of the USTs and encompass monitoring well MW-35 and in the area directly south of Building 161 at well MW-33.

MTBE Iso-concentrations - As illustrated on Figure 6, the highest MTBE concentration in groundwater was detected in the sample collected from well MW-32 at 13,000 µg/L. In August 2004, MTBE was detected at this well at 5,400 µg/L. The concentrations of MTBE decreased significantly in groundwater samples collected from wells further away from the USTs. MTBE was not detected in groundwater at wells located along the west, southwest, south, southeast, and northeast boundaries of the site at wells EW-43, MW-17, MW-21, MW-6, MW-25, and MW-36. Except for well MW-35 (43 µg/L), the MTBE groundwater concentrations remained below 10 µg/L for the rest of the site.

3.4 ESTIMATED MASS OF PETROLEUM HYDROCARBONS REMOVED FROM THE VAPOR SYSTEM

Based on the records of operating parameters from the CATOX system, the estimated mass of petroleum hydrocarbons removed in the vapor phase was calculated using the following equation:

$$M \text{ (pounds)} = Q \text{ (scfm)} \times C \text{ (mg/m}^3\text{)} \times RH \text{ (hrs)} \times CF$$

Where:

M = mass removed in pounds

Q = flow rate in standard cubic feet per minute (scfm)

C = concentration of petroleum hydrocarbons in milligrams per cubic meter (mg/m^3) calculated from LEL measurements of the inlet vapor flow

RH = number of hours the system is operating

CF = conversion factor to convert scfm and mg/m^3 to cubic feet per hour (ft^3/hr) and pounds per cubic foot (lb/ft^3)

The following correlation was used to determine the concentration based on the LEL

$$100\% \text{ LEL} = 12,000 \text{ ppmv or } 49,200 \text{ mg/m}^3$$

Based on the operating data from the CATOX system, the estimated amount of petroleum hydrocarbons removed from the subsurface is summarized in Table 4. A total of approximately 3,791 pounds of petroleum hydrocarbons were removed in approximately 2,557 hours of operation during the reporting period (September 9, 2004 – February 24, 2005) at an average removal rate of 1.76 pounds per hour. A total of approximately 173,261 pounds of petroleum hydrocarbons have been removed since the startup of the CATOX system in September 1996. Figure 7 shows the cumulative petroleum hydrocarbons removed by the CATOX system since the startup of the system. These numbers should be considered as indicators and not absolute numbers due to inherent approximations in calculating total mass extracted and inaccuracy of the LEL sensor.

3.5 ESTIMATED MASS OF PETROLEUM HYDROCARBONS REMOVED FROM THE GROUNDWATER SYSTEM

Based on the results from September 2004 to February 2005 field measurements of the influent and effluent TPH-g and benzene concentrations from the extracted groundwater, the estimated amount of TPH-g and benzene removed from the groundwater system can be estimated using the following equation:

$$M (\text{pounds}) = V (\text{gallons}) \times C (\text{mg/m}^3) \times CF$$

Where:

V = volume of groundwater/free product extracted in gallons

C = influent concentration of benzene in mg/m^3

CF = conversion factor to convert gallons and ppm to cubic feet (ft^3) and pounds per cubic foot (lb/ft^3)

Based on the data collected during groundwater system operations, the estimated amount of TPH-g and benzene removed is summarized in Table 5. A total of approximately 0.21 pounds of TPH-g and approximately 0.009 pounds of benzene were removed during the reporting period (September 9, 2004 – February 24, 2005). Since January 1998, a total of 54.2 pounds of TPH-g and 1.9 pounds of benzene have been removed. Figure 8 shows the cumulative amount of groundwater removed since the startup of the system. Figure 9 shows the cumulative amount of benzene and TPH-g removed with the LRPs since the startup of the system. As shown on this figure, the gaps in the data are due to the treatment system being non-operational between January 23, 2003 and March 4, 2003 while awaiting approval from the City of Oxnard to discharge treated water to the sewer system.

4.0 SUMMARY AND CONCLUSIONS

Based on the February 2005 groundwater monitoring activities the following observations can be made:

- ◆ Groundwater elevations have increased since the last monitoring event conducted in August 2004. Overall, groundwater elevations increased an average of approximately 4.66 feet since the August 2004 sampling event. The lowest groundwater elevations were observed in the area of the USTs where groundwater extraction continued periodically during the reporting period. The increase in groundwater levels at the site may be related to the above average levels of precipitation that have occurred during the last few months.
- ◆ While there have been noted fluctuations in the data over time, the overall contaminant trends in groundwater indicate that the concentrations of the target compounds (TPH-g and benzene) have declined significantly since early 1990's in the area of the primary plume.
- ◆ For the most part, the primary groundwater plume has been assessed to non-detectable concentrations to concentrations below 1 µg/L for benzene and MTBE. Along the southeastern boundary of the primary groundwater plume residual concentrations of gasoline-range hydrocarbons still exist at well MW-6 at concentration of 170 µg/L.
- ◆ In the UST area, the concentrations of TPH-g, benzene, and MTBE at wells MW-13, MW-31, and MW-35 decreased significantly between the August 2004 and February 2005 sampling event.
- ◆ Over the reporting period (September 9, 2004 – February 24, 2005), the total amount of petroleum hydrocarbons removed from the vapor phase was estimated to be 3,791 pounds. Since the startup of the CATOX system in September 1996, a total of approximately 173,261 pounds of petroleum hydrocarbons were removed from the vapor phase.
- ◆ Over the reporting period (September 9, 2004 – February 24, 2005), approximately 0.21 pounds of TPH-g and approximately 0.009 pounds of benzene were removed from groundwater. Since January 1998, a total of 54.2 pounds of TPH-g and 1.9 pounds of benzene have been removed from groundwater. However, these numbers should be considered as indicators and not absolute numbers due to inherent approximations in calculating total mass extracted and inaccuracy of the LEL sensor.

Based on the February 2005 groundwater data the following actions will be taken during the next period to enhance the overall recovery of petroleum hydrocarbons at the site:

- ◆ Continue to extract from wells EW-10 and EW-26 to target groundwater in the vicinity of monitoring well MW-33 to reduce the TPH-g groundwater concentration.
- ◆ Increase air sparge efficiency for enhancing the oxygen levels in groundwater in the vicinity of the USTs – a workplan detailing the enhancement of the current biosparging system will be submitted by the Navy by July 2005.
- ◆ Continue to focus soil vapor and groundwater extraction in the areas of MW-32 with either of extraction wells EW-19, EW-41, and EW-47.

5.0 REFERENCES

- Dames & Moore, 1996. *Remedial Action Plan and Evaluation of Groundwater Remediation Measures, Navy Exchange Gasoline Station Site, Naval Air Weapons Station, Point Mugu, California*, for the Anteon Corporation, Job No. 00124-286-170, August 8, 1996.
- Dames & Moore, 1997. *Operation and Maintenance Manual, Navy Exchange Gasoline Station Site, Naval Air Weapons Station, Point Mugu, California*, for the Anteon Corporation, Job No. 00124-286-170, March 14, 1997.
- Dames & Moore, 1998a. *Quarterly Report #1, Navy Exchange Gasoline Station, Naval Air Weapons Station, Point Mugu, California*, for Anteon Corporation, Job No. 00124-286-170, May 4, 1998.
- Dames & Moore, 1998b. *Quarterly Report #2, Navy Exchange Gasoline Station, Naval Air Weapons Station, Point Mugu, California*, for Anteon Corporation, Job No. 00124-286-170, August 31, 1998.
- Dames & Moore, 1998c. *Quarterly Report #3, Navy Exchange Gasoline Station, Naval Air Weapons Station, Point Mugu, California*, for Anteon Corporation, Job No. 00124-286-170, December 29, 1998.
- Dames & Moore, 1998c. *Quarterly Report #4, Navy Exchange Gasoline Station, Naval Air Weapons Station, Point Mugu, California*, for Anteon Corporation, Job No. 00124-286-170, March 1, 1999.
- Dames & Moore, 1999a. *Quarterly Report #1, Navy Exchange Gasoline Station, Naval Air Weapons Station, Point Mugu, California*, for Anteon Corporation, Job No. 00124-322-170, June 29, 1999.
- Dames & Moore, 1999b. *1998 Annual Report, Navy Exchange Gasoline Station, Naval Air Weapons Station, Point Mugu, California*, for Anteon Corporation, Job No. 00124-322-170, June 30, 1999.
- Dames & Moore, 1999c. *Quarterly Report #2, Navy Exchange Gasoline Station, Naval Air Weapons Station, Point Mugu, California*, for Anteon Corporation, Job No. 00124-322-170, June 29, 1999.
- Dames & Moore, 1999d. *Quarterly Report #3, Navy Exchange Gasoline Station, Naval Air Station, Point Mugu, California*, for Anteon Corporation, Job No. 00124-322-170, August 27, 1999.
- Dames & Moore, 1999e. *Quarterly Report #4, Navy Exchange Gasoline Station, Naval Air Weapons, Point Mugu, California*, for Anteon Corporation, Job No. 00124-322-170, January 18, 2000.
- Delta Controls Corp.; LA Web Page: Densities of different liquids*
- "Initial Assessment Study of Pacific Missile Test Center, Point Mugu, California" NEESA Report No. 13-078, September 1985, prepared by Stearns, Conrad and Schmidt, and Landau Associates, Contract No. N62474-84-C3381.*
- Navy, 2000, Monitoring Plan, Navy Exchange Gasoline Station, Naval Base Ventura County, Point Mugu, California, December 30, 2002*
- Navy, 2002, Modified Monitoring Plan, Navy Exchange Gasoline Station, Naval Base Ventura County, Point Mugu, California, December 30, 2002*
- URS – Dames & Moore, 2000a. Quarterly Report #1, Navy Exchange Gasoline Station, Naval Air Station, Point Mugu, California, Job No. 40633-289-128, June 7, 2000.*

Point Mugu Building 161

- URS – Dames & Moore, 2000b. *Quarterly Report #2, Navy Exchange Gasoline Station, Naval Air Station, Point Mugu, California, Job No. 40633-289-128, August 11, 2000.*
- URS – Dames & Moore, 2000c. *Quarterly Report #3, Navy Exchange Gasoline Station, Naval Air Station, Point Mugu, California, Job No. 40633-289-128, December 13, 2000.*
- URS, 2000d. *Operational Summary and Closure Criteria Report, Navy Exchange Gasoline Station, Naval Air Weapons Station, Point Mugu, California, for Anteon Corporation, Job No. 40633-289-170, May 16, 2000*
- URS, 2000e. *Soil Removal Information from Department of Navy, Public Works Department for Soil Excavations, Navy Exchange Gasoline Station, Naval Air Weapons Station, Point Mugu, California, Fax dated October 20, 2000.*
- URS, 2001a. *Operational Summary and Closure Criteria Report Addendum, Navy Exchange Gasoline Station, Naval Base Ventura County, Point Mugu, California, Job No. 40633-289-128, January 2, 2001*
- URS, 2001b. *Operational Summary and Closure Criteria Report Addendum, Navy Exchange Gasoline Station, Naval Base Ventura County, Point Mugu, California, Job No. 40633-289-128, February 13, 2001*
- URS, 2002. *Modified Monitoring Plan for Navy Exchange Gasoline Station Site, Naval Base Ventura County, Point Mugu, California, December 30, 2002*
- URS, 2003a. *System Monitoring Results, July 2001 to December 2002, and Closure Criteria Addendum No. 2, Navy Exchange Gasoline Station, Naval Base Ventura County, Point Mugu, California, April 4, 2003*
- URS, 2003b. *First Quarter 2003, Groundwater Monitoring Report, Navy Exchange Gasoline Station, Naval Base Ventura County, Point Mugu, California, May 16, 2003*
- URS, 2003c. *Modified Monitoring Plan, Navy Exchange Gasoline Station (NEX), Naval Base Ventura County, Point Mugu, August 18, 2003*
- URS, 2003d. *Second Quarter 2003, Groundwater Monitoring Report, Navy Exchange Gasoline Station, Naval Air Station, Point Mugu, California, October 21, 2003*
- URS, 2003e. *Work Plan for Additional Well Installation, Navy Exchange Gasoline Station (NEX), Naval Air Station, Point Mugu, California, September 4, 2003*
- URS, 2003f. *August 2003 Semi-Annual Monitoring Report, Navy Exchange Gasoline Station (NEX), Naval Air Station, Point Mugu, California, November 18, 2003*
- URS, 2003g. *2003 Well Installation Report, Navy Exchange Gasoline Station (NEX), Naval Air Station, Point Mugu, California, December 30, 2003*
- URS, 2004a. *February 2004 Semi-Annual Monitoring Report, Navy Exchange Gasoline Station (NEX), Naval Air Station, Point Mugu, California, April 13, 2004*
- URS, 2004b. *Modified Monitoring Plan, Navy Exchange Gasoline Station (NEX), Naval Base Ventura County, Point Mugu, April 22, 2004*
- URS, 2004c. *August 2004 Semi-Annual Monitoring Report, Navy Exchange Gasoline Station (NEX), Naval Air Station, Point Mugu, California, October 13, 2004*

TABLE 1
CATOX SYSTEM VAPOR PHASE FIELD DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

Date	Time	CATOX Hours	LEL ¹ (%)	Dilution Air Valve (% CLOSED)	Inlet Vacuum (inches Hg) ²	Exhaust Flow (cfm) ³	Amps ⁴
9/9/2004	10:00	47990.7	9.7	0	9.5	83	27
9/16/2004	9:15	48159.7	10.7	0	9	89	27
9/23/2004	13:00	48327.2	7.1	0	9	94	27
9/30/2004	13:30	48486.2	17.5	0	10	94	32
10/7/2004	10:30	48629.5	17.8	0	10	104	32
10/14/2004	11:00	48823.9	9.9	0	9	104	30
10/21/2004	11:00	48954.7	8.5	0	9	91	29
10/28/2004	8:00	49077.3	6.8	0	10	93	30
11/4/2004	10:30	49246.7	4.7	0	9.5	95	32
11/11/2004	9:00	49434.9	8.5	0	10	104	30
11/18/2004	8:30	49576	7.3	0	10	104	30
11/24/2004	7:30	46718	7.1	0	10	99	31
12/2/2004	13:30	49878	10.0	0	10	104	30
12/9/2004	12:30	50078.9	6.8	0	10	99	30
12/16/2004	7:00	50190.3	6.7	0	10	99	30
12/23/2004	11:00	50238.2	6.9	0	9	90	28
12/29/2004	12:15	50238.2	6.7	0	10	91	30
1/6/2005	NM	NM	0.0	NM	NM	NM	NM
1/13/2005	NM	NM	0.0	NM	NM	NM	NM
1/21/2005	8:00	50270.6	2.2	0	9.5	80	28
1/27/2005	8:00	50386.1	0.9	0	9	87	28
2/3/2005	9:00	50401.4	0.8	0	12	90	32
2/10/2005	8:30	50473.9	1.6	0	10	89	28
2/18/2005	7:30	50523.6	0.8	0	9.5	74	28
2/24/2005	8:00	50547.8	1.0	0	10	65	28

LEL is calculated based on the measured inlet concentration.

Notes:

1. LEL: lower explosive limit
 2. Hg: Mercury
 3. cfm: cubic feet per minute
 4. Amps: Amperes
- NM: Not Measured

System Notes:

System shutdown 1/4/2005 to 1/19/2005 due to circuit board failure.

TABLE 2
LIQUID RING PUMP LIQUID PHASE FIELD DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

Date	Time	Inlet Vacuum (inches Hg) ¹		Outlet Pressure (psi _g) ²	Feedwater (gpm) ³		Amps ⁴	
		OLRP	NLRP		OLRP	NLRP	OLRP	NLRP
9/9/2004	10:00	24	NA	9.5	4	NA	49	NA
9/16/2004	9:15	21.5	NA	9	5	NA	48	NA
9/23/2004	13:00	21.5	NA	9	5	NA	49	NA
9/30/2004	13:30	25	23	10	4	4	49	45
10/7/2004	10:30	23	22	10	4	5	51	45
10/14/2004	11:00	25	22	9	3	4	49	45
10/21/2004	11:00	21	NA	9	4	NA	50	NA
10/28/2004	8:00	NA	22	10	NA	4	NA	44
11/4/2004	10:30	25	24	9.5	4	4	50	45
11/11/2004	9:00	25	25	10	5	5	49	45
11/18/2004	8:30	25	NA	10	5	NA	49	NA
11/24/2004	7:30	23	NA	10	5	NA	49	NA
12/2/2004	13:30	25	NA	10	4	NA	49	NA
12/9/2004	12:30	25	NA	10	5	NA	49	NA
12/16/2004	7:00	25	NA	10	3	NA	50	NA
12/23/2004	11:00	25	NA	9	4	NA	50	NA
12/29/2004	12:15	25	NA	10	5	NA	50	NA
1/6/2005	NM	NM	NM	NM	NM	NM	NM	NM
1/13/2005	NM	NM	NM	NM	NM	NM	NM	NM
1/21/2005	8:00	NA	26	9.5	NA	2.8	NA	43.5
1/27/2005	8:00	NA	27	9	NA	2	NA	45
2/3/2005	9:00	27	NA	12	5	NA	49	NA
2/10/2005	8:30	25	NA	10	4	NA	47	NA
2/18/2005	7:30	28	NA	9.5	5	NA	50	NA
2/24/2005	8:00	27	NA	10	4	NA	49	NA

Notes:

1. Hg: Mercury
 2. psi_g: pounds per square inch gage
 3. gpm: gallons per minute
 4. Amps: Amperes
- NA: Not Applicable
NM: Not Measured
NLRP: New Liquid Ring Pump
OLRP: Old Liquid Ring Pump

System Notes:

System shutdown 1/4/2005 to 1/19/2005 due to circuit board failure.

TABLE 3
HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

Well No.	Sample Date ¹	TPH-g ^{2,3} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Other Site Well									
AS-1 (formerly MW-3)⁸	11/1/1988	NA	6,800	NA	NA	NA	NA	NA	NM
	1989	15,000	ND	NA	NA	NA	NA	NA	NM
	4/26/1996	22,000	14,000	400	2,000	2,100	NA	NA	5.29
	7/9/1996	31,000	19,000	600	2,400	2,100	NA	NA	4.31
	11/6/1996	22,000	21,000	250	2,400	2,100	NA	0.35	3.35
	2/12/1997	10,000	2,700	86	460	610	NA	0.14	6.41
	5/19/1997	5,300	800	27	75	120	NA	0.15	4.64
	9/4/1997	8,100	4,700	42	91	220	NA	0.4	NM
	12/9/1997	8,100	2,700	13	44	990	NA	0.61	NM
	3/12/1998	16,000	4,200	<5	29	42	NA	0.29	NM
	6/2/1998	13,000	5,800	1	19	25	NA	1.54	NM
	9/9/1998	11,000	6,500	12	5	24	NA	0.40	NM
	12/21/1998	46,000	20,000	34	40	110	NA	0.43	NM
	3/9/1999	14,000	3,200	32	<25	540	NA	0.51	NM
	6/15/1999	8,200	2,500	2	1.5	58	380	0.67	NM
	9/23/1999	10,000	3,000	<10	54	56	NA	NA	NM
	12/7/1999	5,600	1,800	25	63	100	NA	5.36	NM
	3/14/2000	2,300	680	<2.5	12	18	130	0.78	NM
	6/6/2000	26,000	10,000	32	470	450	<100	0.48	NM
	12/7/2000	24,000	9,600	17	300	390	780	0.54	2.40
Perimeter Compliance Well - Southern Boundary									
GTI-3	11/6/1996	ND	ND	ND	ND	ND	NA	0.43	0.78
	2/12/1997	ND	ND	ND	ND	ND	NA	0.2	4.03
	5/19/1997	ND	ND	ND	ND	ND	NA	0.2	2.36
	9/4/1997	ND	ND	ND	ND	ND	NA	0.41	1.20
	12/9/1997	ND	ND	ND	ND	ND	NA	0.6	2.51
	3/12/1998	ND	ND	ND	ND	ND	NA	0.46	4.92
	6/2/1998	ND	ND	ND	ND	ND	NA	0.44	3.36
	9/9/1998	ND	ND	ND	ND	ND	NA	0.62	2.17
	12/21/1998	ND	ND	ND	ND	ND	NA	0.36	2.10
	3/9/1999	ND	ND	ND	ND	ND	NA	0.40	2.59
	3/14/2000	ND	ND	ND	ND	ND	ND	0.85	3.39
	3/14/2001	ND	ND	ND	ND	ND	ND	1.73	5.69
	3/14/2002	<50	<0.5	<0.5	<0.5	<1.5	<5	0.41	0.59
	12/17/2002	<50	<0.50	<0.50	<0.50	<1.5	<2.0	0.23	2.33
	4/1/2003	NA	NA	NA	NA	NA	NA	NA	4.83
	6/3/2003	NA	NA	NA	NA	NA	NA	NA	3.65
	8/29/2003	<100	<0.5	<0.5	<0.5	<1	<2	0.38	2.17
	2/17/2004	NA	NA	NA	NA	NA	NA	NA	2.53
	8/19/2004	<100	<0.5	<0.5	<0.5	<1	<2	0.52	1.50
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	8.44
Upgradient Perimeter Well									
GTI-6	12/17/2002	30 J	<0.50	<0.50	<0.50	<1.5	<2.0	0.61	NA
	4/1/2003	NA	NA	NA	NA	NA	NA	NA	5.18
	6/3/2003	NA	NA	NA	NA	NA	NA	NA	4.44
	8/29/2003	<100	<0.5	<0.5	<0.5	<1	<2	0.23	3.95
	2/17/2004	NA	NA	NA	NA	NA	NA	NA	5.26
	8/19/2004	<100	<0.5	<0.5	<0.5	<1	<2	0.47	4.32
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	7.52

TABLE 3

**HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA**

Well No.	Sample Date ¹	TPH-g ^{2,9} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Wells Surrounding Underground Storage Tanks									
MW-2	11/1/1988	NA	23,000	NA	NA	NA	NA	NA	NA
	1989	14,000	2,200	NA	NA	NA	NA	NA	NA
	4/26/1996	97,000	6,500	13,000	1,700	16,000	NA	NA	5.36
	7/9/1996	100,000	12,000	18,000	2,500	16,000	NA	NA	4.74
	11/6/1996	120,000	15,000	20,000	2,200	15,000	NA	NA	3.89
	2/12/1997	64,000	4,100	9,600	1,800	10,000	NA	0.15	5.65
	5/19/1997	92,000	7,200	11,000	1,700	13,000	NA	0.12	5.03
	9/4/1997	80,000	8,300	12,000	2,300	14,000	NA	0.1	4.07
	12/9/1997	80,000	4,200	8,300	1,400	9,700	NA	0.17	4.13
	3/12/1998	50,000	6,700	4,800	330	4,000	NA	0.5	4.40
	6/2/1998	71,000	7,500	6,400	1,300	9,200	NA	0.26	5.05
	9/9/1998	80,000	7,500	6,800	1,400	13,000	NA	0.65	3.42
	12/21/1998	39,000	3,300	970	380	5,000	NA	0.8	1.73
	3/9/1999	20,000	2,700	780	<50	2,800	NA	0.45	3.26
	6/15/1999	23,000	3,000	810	190	2,300	2,400	0.35	3.06
	9/23/1999	35,000	9,500	1,200	540	2,200	NA	0.25	1.27
	12/8/1999	7,900	2,400	50	95	250	NA	NA	0.44
	3/14/2000	9,900	3,100	110	210	520	1,300	0.42	1.18
	6/6/2000	39,000	14,000	740	920	1,500	2,600	0.69	1.24
	9/13/2000	41,000	13,000	370	250	1,900	2,700	0.55	0.84
	12/7/2000	5,600	1,200	130	41	330	3,300	0.80	0.14
	3/14/2001	740	5.6	0.8	ND	18	680	2.37	3.84
	6/17/2001	7,300	65	0.8	0.9	4.3	9,800	0.30	2.44
	9/12/2001	26,000	11,000	130.0	98.0	410.0	7,500	0.35	0.34
	12/13/2001	27,000	8,200	380	720	1100	3,800	0.39	1.54
	3/14/2002	28,000	17,000	1000	940	1200	3,100	0.62	5.04
	Well MW2 was dry and was not sampled.								
	Well MW2 was dry and was not sampled.								
	Well MW2 was dry and was not sampled.								
	6/5/2002							NA	0.39
	9/12/2002							NA	0.39
	12/11/2002							3.56	0.44
	4/1/2003	200	2.0	<0.5	0.57	1.1	1.7 J	0.51	2.43
	6/3/2003	490	2.1	<0.5	0.99	3.62	1.03 J	0.47	4.10
	8/29/2003	25 J	<0.5	<0.5	<0.5	<1	1.9 J	1.15	3.50
	2/17/2004	86 J	<0.5	<0.5	<0.5	<1	1.0 J	0.91	3.36
	8/19/2004	<100	<0.5	<0.5	<0.5	<1	2.3	0.40	3.02
	2/10/2005	<100	<0.5	<0.5	<0.5	<0.5	<2	0.97	5.44
MW-4	11/1/1988	NA	56	NA	NA	NA	NA	NA	NM
	8/9/1991	197,000	10,600	NA	NA	NA	NA	NA	NM
	4/26/1996	12,000	81	16	140	410	NA	NA	5.52
	7/9/1996	10,000	130	62	230	510	NA	NA	4.34
	5/19/1997	6,900	61	22	94	280	NA	0.19	4.99
	9/4/1997	24,000	13	10	52	140	NA	0.45	3.98
	12/9/1997	2,900	70	10	31	95	NA	0.16	5.22
	3/12/1998	2,900	11	13	14	41	NA	0.41	6.90
	6/2/1998	2,100	34	ND	17	33	NA	0.62	4.18
	9/9/1998	24,000	59	8.9	27	41	NA	0.36	3.71
	12/21/1998	2,600	150	18	35	36	NA	0.57	3.53
	3/9/1999	6,400	190	17	61	63	NA	0.44	4.11
	6/15/1999	3,000	130	11	33	32	27	0.30	4.24
	9/23/1999	300	1.4	ND	0.9	3.2	NA	4.77	6.18
	12/7/1999	1,700	5.4	ND	23	6.5	NA	2.14	4.06
	3/14/2000	18	0.6	ND	ND	ND	ND	0.72	6.22
	6/6/2000	840	5	ND	2.7	2.2	ND	2.33	4.51
	9/13/2000	100	9.8	<0.5	2.8	2.7	<5.0	0.20	4.26
	3/14/2001	78	ND	1.1	ND	ND	ND	2.23	7.56
	3/14/2002	3,400	240	45	28	54	<10 F2	0.42	4.66
	12/17/2002	2,900	180	3.2	4.9	4.2 J	<10	0.38	3.27
	4/1/2003	NA	NA	NA	NA	NA	NA	NA	4.68
	6/3/2003	NA	NA	NA	NA	NA	NA	NA	3.65
	8/29/2003	14,000	600	92	19	380	1.4 J	0.59	3.52
	2/17/2004	NA	NA	NA	NA	NA	NA	NA	-0.19
	8/19/2004	<100	<0.5	<0.5	<0.5	<1	<2	0.45	1.41
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	9.02

TABLE 3
HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

Well No.	Sample Date ¹	TPH-g ^{2,9} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Perimeter Compliance Well - Southern Boundary									
MW-6	1989	25,000	4,200	NA	NA	NA	NA	NA	NM
	8/9/1990	570,000	22,600	NA	NA	NA	NA	NA	NM
	12/17/1991	248,000	2,540	NA	NA	NA	NA	NA	NM
	9/25/1992	189,000	4,610	NA	NA	NA	NA	NA	NM
	10/26/1995	28,000	2,500	NA	NA	NA	NA	NA	NM
	1/26/1996	42,000	2,300	NA	NA	NA	NA	NA	NM
	4/26/1996	23,000	1,200	40	260	1,500	NA	NA	4.17
	7/9/1996	42,000	2,100	870	3,300	7,800	NA	NA	3.59
	11/6/1996	42,000	2,500	200	2,300	5,300	NA	0.12	3.06
	2/12/1997	34,000	2,400	170	2,200	4,100	NA	0.11	4.03
	5/19/1997	58,000	1,800	160	2,300	4,200	NA	0.17	3.54
	9/4/1997	49,000	980	130	1,700	3,400	NA	0.22	2.06
	12/9/1997	24,000	570	54	1,200	2,300	NA	0.14	2.51
	3/12/1998	7,200	240	12	290	340	NA	0.3	5.29
	6/2/1998	4,800	400	7.1	390	260	NA	0.22	4.61
	9/9/1998	13,000	760	50	890	1,000	NA	0.57	2.93
	12/21/1998	21,000	720	93	1,000	1,800	NA	0.83	2.23
	3/9/1999	20,000	700	38	1,100	NA	NA	0.51	1.97
	6/15/1999	56,000	750	120	1,400	2,400	<100	0.26	2.73
	9/23/1999	29,000	520	59	1,100	2,300	NA	0.18	2.00
	12/7/1999	22,000	550	35	1,200	2,200	NA	0.26	1.59
	3/14/2000	6,200	91	6.9	290	390	<50	0.28	3.09
	6/6/2000	4,500	210	11	380	210	40	0.23	2.64
	9/13/2000	14,000	390	24	790	1,000	<100	0.23	1.84
	12/7/2000	23,000	370	67	1,300	1,900	<50	0.25	1.14
	3/14/2001	790	4.0	3.1	14	29	5	0.30	3.94
	6/17/2001	2,700	39.0	6.2	150	64	24	0.28	2.74
	9/12/2001	5,400	93.0	18	330	280	<10	0.40	0.04
	12/13/2001	7,700	42	49	240	140	14	0.34	2.74
	3/14/2002	3,300 C2A	39	23	210	56	<25 F2	0.49	2.49
	6/5/2002	9,300	81	32	630	460	26	0.28	2.47
	9/12/2002	7,500	25	2.8	530	360	22	0.03	1.77
	12/17/2002	8,100	14	2.0 J	560	410	11 J	0.79	2.29
	4/1/2003	2,900	1.2	<0.5	59	36.8	0.61 J	0.26	4.67
	6/3/2003	5,700	1.5	<0.5	180	98.3	<2	0.35	4.65
	8/29/2003	5,300	2.5	0.65	200	73.6	2.7	0.28	3.86
	2/17/2004	9,600	5.5	1.4	370	195	14	0.80	1.76
	8/19/2004	3,300	0.87	<0.5	110	24	8.5	0.42	2.36
	2/10/2005	170	<0.5	<0.5	<0.5	<0.5	<2	0.94	4.67

TABLE 3

**HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA**

Well No.	Sample Date ¹	TPH-g ^{2,9} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Perimeter Wells - South-Southeastern Boundary									
MW-8	1989	8,000	850	NA	NA	NA	NA	NA	NM
	10/26/1995	4,000	190	NA	NA	NA	NA	NA	NM
	1/26/1996	5,000	1,300	NA	NA	NA	NA	NA	NM
	4/26/1996	8,000	1,100	140	50	400	NA	NA	4.85
	7/9/1996	7,100	1,400	32	98	92	NA	NA	4.45
	11/6/1996	6,400	930	19	48	59	NA	0.16	2.52
	2/12/1997	13,000	3,200	290	230	180	NA	0.18	5.09
	5/19/1997	12,000	1,800	160	150	130	NA	0.17	4.72
	9/4/1997	18,000	620	24	57	41	NA	0.11	3.41
	12/9/1997	18,000	4,900	280	120	160	NA	0.16	2.81
	3/12/1998	33,000	6,300	800	280	900	NA	NA	3.73
	6/2/1998	38,000	12,000	850	240	1,600	NA	0.23	4.80
	9/9/1998	7,800	2,900	31	12	190	NA	0.94	2.89
	12/21/1998	9,700	3,600	71	54	130	NA	1.1	1.96
	3/9/1999	7,400	1,500	14	15	100	NA	0.88	2.02
	6/15/1999	7,100	1,800	14	5	73	<100	0.53	2.73
	9/23/1999	1,800	270	6	5.4	15	NA	0.50	2.13
	12/7/1999	910	26	ND	2.3	10	NA	0.58	1.42
	3/14/2000	810	150	3	5	14	61	0.2	2.37
	6/6/2000	540	49	<0.5	3.5	5.9	45	0.27	2.62
	9/13/2000	150	1	2.2	<0.5	<1.0	26	0.23	2.02
	12/7/2000	55	<0.5	0.9	0.6	<1.0	39	0.80	1.02
	3/14/2001	<50	0.7	<0.5	<0.5	<1.0	<5.0	1.33	3.02
	6/17/2001	<50	<0.5	<0.5	<0.5	<1.0	<5.0	1.25	3.12
	9/12/2001	<50	<0.5	<0.5	<0.5	<1.0	<5.0	0.57	1.92
	12/13/2001	46	1.7	0.7	0.6	1.4	11	0.28	2.37
	3/14/2002	50 J/C2	0.5	<0.5	<0.5	<1.5	18	0.39	2.37
	6/5/2002	40 J	<0.5	0.7	<0.5	<1.5	16	0.27	3.11
	9/12/2002	40 J	<0.50	<0.50	<0.50	<1.5	14	0.25	2.11
	12/17/2002	30 J	<0.50	<0.50	<0.50	<1.5	0.35 J	0.41	2.52
	4/1/2003	<100	<0.5	<0.5	<0.5	<1	5.0	0.29	5.50
	6/3/2003	<100	<0.5	<0.5	<0.5	<1	3.4 J ¹⁰	0.32	5.07
	8/29/2003	<100	<0.5	<0.5	<0.5	<1	2.3	0.62	4.30
	2/17/2004	NA	NA	NA	NA	NA	NA	NA	4.69
	8/19/2004	310	3.2	<0.5	1.2	<1	5.6	0.40	3.74
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	9.61
MW-9	1989	2,000	855	NA	NA	NA	NA	NA	NM
	4/26/1996	3,400	3,100	30	350	40	NA	NA	5.47
	7/9/1996	3,100	2,600	30	340	60	NA	NA	4.54
	3/12/1998	NA	NA	NA	NA	NA	NA	NA	4.18
	6/2/1998	NA	NA	NA	NA	NA	NA	NA	4.31
	3/14/2000	270	5.4	<0.5	0.9	2.4	23	1.8	1.79
	6/6/2000	1,100	29	3.5	160	19	29	0.31	2.09
	9/13/2000	670	5	2.1	1.4	6.4	28	0.19	1.59
	12/7/2000	85	<0.5	1.3	0.6	1.3	47	0.30	0.74
	3/14/2001	<50	0.6	0.7	<0.5	1.7	<5.0	0.40	3.49
	6/17/2001	<50	<0.5	<0.5	<0.5	<1.0	<5.0	0.80	2.89
	9/12/2001	<50	3	0.6	<0.5	<1.0	12	0.40	0.39
	12/13/2001	91	2.2	1.2	0.7	1.1	22	0.86	1.44
	3/14/2002	140 C2	1.2	1.4	<0.5	<1.5	14	0.26	-0.3
	6/5/2002	82	0.5	1.7	<0.5	0.8 J	13	0.33	2.36
	9/12/2002	72	0.45 J	0.42 J	<0.50	<1.5	11	0.27	1.66
	12/17/2002	30 J	<0.50	<0.50	<0.50	<1.5	0.32 J	0.29	1.90
	4/1/2003	<100	<0.5	<0.5	<0.5	<1	1.61 J	0.62	4.08
	6/3/2003	<100	<0.5	<0.5	<0.5	<1	<2	0.46	4.45
	8/29/2003	<100	<0.5	<0.5	<0.5	<1	<2	0.39	4.07
	2/17/2004	NA	NA	NA	NA	NA	NA	NA	4.29
	8/19/2004	<100	<0.5	<0.5	<0.5	<0.5	<1	<2	0.82
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	8.96

TABLE 3
HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

Well No.	Sample Date ¹	TPH-g ^{2,3} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Upgradient Perimeter Well									
MW-10	1989	13,000	380	NA	NA	NA	NA	NA	NM
	8/9/1991	13,000	300	NA	NA	NA	NA	NA	NM
	7/9/1996	2,000	2.9	ND	6.1	5.4	NA	NA	3.88
	11/6/1996	3,900	ND	ND	ND	ND	NA	0.19	2.64
	2/12/1997	3,800	ND	ND	12	5.1	NA	0.14	3.77
	5/19/1997	3,300	4.9	ND	0.4	4.3	NA	0.81	4.28
	9/4/1997	2,900	8.7	ND	0.7	ND	NA	0.35	3.05
	12/9/1997	2,900	ND	13	12	6	NA	0.24	2.66
	3/12/1998	3,100	0.8	24	9.7	3.5	NA	0.42	6.21
	6/2/1998	1,000	ND	ND	ND	ND	NA	0.67	5.73
	9/9/1998	3,300	ND	ND	ND	ND	NA	0.54	4.01
	12/21/1998	2,600	ND	ND	3.4	2.6	NA	0.38	3.01
	3/9/1999	4,200	ND	56	14	5.8	NA	1.20	3.49
	3/14/2000	3,600	ND	ND	ND	5.1	ND	1.12	4.19
	6/6/2000	400	ND	9.6	0.6	1.1	ND	0.33	4.29
	9/13/2000	880	1	32	1.6	2	<5.0	0.22	3.19
	3/14/2001	1,500	ND	62	1.3	ND	ND	0.65	5.24
	3/14/2002	2,200	<0.5	73	1.2	2.2	<5	0.40	3.59
	12/12/2002	4,200	<1.0	<1.0	<1.0	<3.0	<4.0	1.33	2.84
	4/1/2003	NA	NA	NA	NA	NA	NA	NA	2.63
	6/3/2003	1,900	<0.5	<0.5	<0.5	<1	<2	0.32	4.62
	8/29/2003	3,800	<0.5	<0.5	<0.5	<1	<2	0.39	3.83
	2/17/2004	NA	NA	NA	NA	NA	NA	NA	3.34
	8/19/2004	1,800	<0.5	<0.5	<0.5	<1	<2	0.48	3.03
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	10.13
MW-12									
MW-12	11/1/1988	NA	9,000	NA	NA	NA	NA	NA	NM
	7/9/1996	ND	ND	ND	6	ND	NA	NA	3.55
	11/6/1996	ND	1.1	ND	ND	ND	NA	0.23	2.58
	2/12/1997	ND	ND	ND	ND	ND	NA	0.2	6.22
	5/19/1997	ND	ND	ND	ND	ND	NA	1.53	3.84
	9/4/1997	ND	ND	ND	ND	ND	NA	0.25	2.69
	12/9/1997	ND	ND	ND	ND	ND	NA	0.61	3.87
	3/12/1998	ND	ND	ND	ND	ND	NA	0.22	6.64
	6/2/1998	ND	ND	ND	ND	ND	NA	0.34	5.13
	9/9/1998	80	ND	0.8	1.2	3.3	NA	0.70	3.33
	12/21/1998	79	ND	ND	ND	ND	NA	0.46	3.17
	3/9/1999	400	ND	ND	1.3	1.8	NA	0.41	3.67
	9/22/1999	NA	NA	NA	NA	NA	NA	NA	2.13
	12/7/1999	NA	NA	NA	NA	NA	NA	NA	7.54
	3/14/2000	ND	ND	ND	ND	ND	ND	0.31	7.03
	12/17/2002	<50	<0.50	<0.50	<0.50	<1.5	0.62 J	0.37	4.03
	4/1/2003	NA	NA	NA	NA	NA	NA	NA	6.29
	6/3/2003	NA	NA	NA	NA	NA	NA	NA	5.03
	8/29/2003	<100	<0.5	<0.5	<0.5	<1	<2	0.35	4.19
	2/17/2004	NA	NA	NA	NA	NA	NA	NA	3.66
	8/19/2004	<100	<0.5	<0.5	<0.5	<1	<2	0.57	3.02
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	8.34

TABLE 3
HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

Well No.	Sample Date ¹	TPH-g ^{2,3} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Upgradient Perimeter Well									
MW-13	11/1/1988	NA	3,700	NA	NA	NA	NA	NA	NM
	7/9/1996	36,000	3,300	760	2,500	2,200	NA	NA	3.91
	11/6/1996	33,000	3,400	890	2,900	2,800	NA	0.19	3.38
	2/12/1997	33,000	3,900	1,500	2,800	2,500	NA	0.18	5.78
	5/19/1997	37,000	4,100	880	2,800	1,800	NA	0.2	4.47
	9/4/1997	130,000	6,100	1,400	5,600	3,900	NA	0.39	3.29
	12/9/1997	49,000	6,000	1,100	3,000	4,100	NA	0.17	3.89
	3/12/1998	340	27	2.7	15	17	NA	0.31	6.17
	6/2/1998	33,000	4,100	430	2,400	2,100	NA	0.36	4.94
	9/9/1998	29,000	3,900	370	2,300	1,800	NA	0.74	3.73
	12/21/1998	32,000	3,300	350	2,500	1,600	NA	0.49	3.32
	3/9/1999	28,000	2,200	200	2,200	870	NA	0.40	3.93
	6/15/1999	41,000	4,400	410	2,300	2,000	<200	0.41	3.86
	9/23/1999	31,000	3,600	240	1,800	880	NA	0.23	2.96
	12/7/1999	27,000	2,900	600	2,500	1,500	NA	0.16	2.88
	3/14/2000	23,000	2,800	300	2,200	1,400	<500	0.31	5.68
	6/6/2000	29,000	4,600	310	2,600	2,000	<200	0.41	7.28
	9/13/2000	21,000	2,400	170	1,800	480	< 100	0.34	2.88
	12/7/2000	26,000	2,400	210	2,700	950	<100	0.33	2.23
	3/14/2001	23,000	2,700	260	1,900	610	<250	0.34	6.38
	6/17/2001	14,000	1,500	120	1,200	250	<25	0.70	4.18
	9/12/2001	20,000	2,500	140	1,700	330	<100	0.67	2.93
	12/13/2001	21,000	2,000	140	1,900	490	110	0.53	3.98
	3/14/2002	26,000	3,400	170	2,300	1,100	<120 F2	0.62	4.53
	6/5/2002	26,000	4,400	190	2,300	900	<100 F2	0.45	4.78
	9/12/2002	17,000	1,300	68	1,600	210	<40	0.46	4.13
	12/12/2002	14,000	1,600	68	1,100	240	<40	0.57	4.08
	4/1/2003	13,000	1,500	48	920	140	<20	0.36	6.03
	6/3/2003	18,000	2,200	50	1,200	220	<40	0.64	5.11
	8/29/2003	16,000	770	35	750	197.1	<20	0.26	4.18
	2/17/2004	11,000	1,500	40	580	135	<20	0.40	3.93
	8/19/2004	7,000	540	16	310	35	5.5 J	0.38	3.47
	2/10/2005	2,100	250	10	110	11	<8	6.20	6.98
Downgradient Perimeter Well									
MW-14	11/1/1988	NA	2	NA	NA	NA	NA	NA	NM
	7/9/1996	ND	ND	ND	ND	ND	NA	NA	3.75
	11/6/1996	ND	ND	ND	ND	ND	NA	0.26	2.93
	2/12/1997	ND	0.6	ND	ND	ND	NA	1.47	5.04
	5/19/1997	440	ND	1.6	0.7	ND	NA	1.92	4.26
	9/4/1997	ND	ND	ND	ND	ND	NA	0.46	2.99
	12/9/1997	ND	ND	ND	ND	ND	NA	0.56	3.07
	3/12/1998	ND	ND	ND	ND	ND	NA	5.94	5.10
	6/2/1998	ND	ND	ND	ND	ND	NA	1.54	3.52
	9/9/1998	ND	ND	ND	ND	ND	NA	0.90	3.41
	12/21/1998	ND	ND	ND	ND	ND	NA	1.53	2.26
	3/9/1999	ND	ND	ND	ND	ND	NA	0.46	2.66
	3/14/2000	ND	ND	ND	ND	ND	ND	1.6	3.88
	12/17/2002	<50	<0.50	<0.50	<0.50	<1.5	<2.0	0.34	4.03
	4/1/2003	NA	NA	NA	NA	NA	NA	NA	5.89
	6/3/2003	NA	NA	NA	NA	NA	NA	NA	5.39
	8/29/2003	<100	<0.5	<0.5	<0.5	<1	<2	0.39	4.53
	2/17/2004	NA	NA	NA	NA	NA	NA	NA	5.13
	8/19/2004	<100	<0.5	<0.5	<0.5	<1	<2	0.50	4.52
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	8.14

TABLE 3
HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

Well No.	Sample Date ¹	TPH-g ^{2,3} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Upgradient Perimeter Well									
MW-15	11/1/1988	NA	6	NA	NA	NA	NA	NA	NM
	1989	6,000	2,381	NA	NA	NA	NA	NA	NM
	8/9/1990	21,000	16	NA	NA	NA	NA	NA	NM
	8/9/1991	19,000	2,390	NA	NA	NA	NA	NA	NM
	12/17/1991	16,000	838	NA	NA	NA	NA	NA	NM
	9/25/1992	6,000	30	NA	NA	NA	NA	NA	NM
	10/26/1995	ND	6	NA	NA	NA	NA	NA	NM
	1/26/1996	ND	3	NA	NA	NA	NA	NA	NM
	4/26/1996	ND	ND	ND	ND	ND	NA	NA	5.62
	7/9/1996	1,000	8	ND	5.5	0.5	NA	NA	4.04
	11/6/1996	ND	3	ND	1.2	0.6	NA	0.21	3.42
	2/12/1997	ND	ND	ND	ND	0.8	NA	0.14	1.64
	5/19/1997	170	11	0.9	6.7	2.9	NA	0.19	4.75
	9/4/1997	910	19	0.9	1.4	2.1	NA	0.3	3.41
	12/9/1997	910	220	6.3	26	8.7	NA	0.16	4.06
	3/12/1998	350	6	ND	1.3	4.6	NA	0.95	7.07
	6/2/1998	210	ND	ND	ND	ND	NA	0.63	5.66
	9/9/1998	100	0.8	2.5	1.2	4.6	NA	0.50	4.17
	12/21/1998	64	ND	ND	ND	ND	NA	0.63	3.94
	3/9/1999	77	ND	ND	ND	ND	NA	0.32	4.56
	3/14/2000	78	ND	ND	0.9	ND	ND	0.6	6.65
	6/6/2000	85	ND	2.1	ND	ND	ND	0.20	5.00
	9/13/2000	<50	<0.5	0.6	0.7	<1.0	<5.0	0.27	3.75
	3/14/2001	ND	ND	2.2	4.6	ND	ND	0.40	7.05
	3/14/2002	120	1.3	<0.5	1.3	0.6 J	<5.0	0.26	4.85
	12/17/2002	54	6.4	<0.50	<0.50	<1.5	0.57 J	0.91	4.18
	4/1/2003	NA	NA	NA	NA	NA	NA	NA	6.01
	6/3/2003	NA	NA	NA	NA	NA	NA	NA	5.11
	8/29/2003	<100	<0.5	<0.5	<0.5	<1	<2	0.55	3.09
	2/17/2004	NA	NA	NA	NA	NA	NA	NA	4.04
	8/19/2004	160	11	0.52	<0.5	<1	1.1 J	0.47	3.17
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	8.62
MW-16	1989	NA	ND	NA	NA	NA	NA	NA	NM
	8/9/1991	ND	ND	NA	NA	NA	NA	NA	NM
	7/9/1996	ND	ND	ND	ND	NA	NA	NA	3.33
	6/2/1998	NA	NA	NA	NA	NA	NA	NA	5.41
	9/9/1998	NA	NA	NA	NA	NA	NA	NA	3.36
	12/11/2002	NA	NA	NA	NA	NA	NA	NA	3.71
	4/1/2003	NA	NA	NA	NA	NA	NA	NA	6.17
	6/3/2003	NA	NA	NA	NA	NA	NA	NA	5.08
MW-16 has been abandoned (see Section 3.7 of 2003 Well Installation Report).									

TABLE 3
HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

Well No.	Sample Date ¹	TPH-g ^{2,9} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Perimeter Compliance Well - Southern Boundary									
MW-17	11/1/1988	NA	21,000	NA	NA	NA	NA	NA	NM
	1989	6,000	2,500	NA	NA	NA	NA	NA	NM
	4/26/1996	44,000	12,000	4,000	1,300	10,000	NA	NA	4.14
	7/9/1996	51,000 ⁷	10,000	3,300	1,000	7,900	NA	NA	3.30
	11/6/1996	44,000	11,000	2,800	1,400	8,300	NA	0.12	2.93
	2/12/1997	58,000	9,600	4,500	1,500	11,000	NA	0.11	4.76
	5/19/1997	70,000	9,800	3,500	1,300	8,800	NA	0.09	3.50
	9/4/1997	66,000	8,200	1,900	1,300	9,200	NA	0.06	2.20
	12/9/1997	66,000	8,400	1,600	1,600	9,800	NA	0.16	3.11
	3/12/1998	60,000	5,200	1,200	850	6,700	NA	0.33	5.29
	6/2/1998	54,000	5,800	1,400	1,100	10,000	NA	0.26	4.55
	9/9/1998	54,000	8,500	570	1,100	10,000	NA	0.34	2.57
	12/21/1998	21,000	2,100	100	490	2,700	NA	0.42	2.27
	3/9/1999	30,000	3,300	190	710	4,300	NA	0.40	2.52
	6/15/1999	26,000	3,300	340	170	2,800	<200	0.30	3.23
	9/23/1999	22,000	2,900	120	590	1,600	NA	0.24	1.46
	12/7/1999	18,000	2,900	110	680	1,200	NA	0.53	1.56
	3/14/2000	27,000	6,000	340	1,300	3,700	<250	0.24	1.01
	6/6/2000	35,000	10,000	860	1,200	4,200	<500	0.18	1.31
	9/13/2000	17,000	2,900	33	450	710	<100	0.28	3.21
	12/7/2000	15,000	3,200	27	780	570	<50	0.31	0.46
	3/14/2001	120	<0.5	<0.5	<0.5	<1.0	170	3.09	3.16
	6/17/2001	5,400	2,400	22	9.5	420	<5.0	0.54	1.01
	9/12/2001	2,000	200	8.2	<1	23	<10	0.57	-0.20
	12/13/2001	4,900	1,600	12	190	94	17	0.45	0.76
	3/14/2002	3,700 C2	1,000	<5 F2	3.4 J	45	21 J	0.39	1.46
	6/5/2002	3,500	900	10	57	79	7	0.77	0.66
	9/12/2002	2,500	250	1.2 J	4.0	21	2.7 J	0.88	0.46
	12/12/2002	5,600	710	2.9	190	120	5.6 J	0.96	1.10
	4/1/2003	57 J	8.2	<0.5	<0.5	2.28	<2	1.38	4.39
	6/3/2003	<100	<0.5	<0.5	<0.5	<1	<2	1.58	4.30
	8/29/2003	21 J	<0.5	<0.5	<0.5	<1	<2	0.36	3.14
	2/17/2004	76 J	2.1	<0.5	0.58	<1	<2	1.04	3.47
	8/19/2004	120	3.0	<0.5	2.1	<1	<2	0.41	2.70
	2/10/2005	81 J	<0.5	<0.5	<0.5	<0.5	<2	2.05	4.86
Other Site Well									
MW-18	11/1/1988	NA	10	NA	NA	NA	NA	NA	NM
	1989	ND	ND	NA	NA	NA	NA	NA	NM
	4/26/1996	ND	ND	ND	ND	ND	NA	NA	3.66
	7/9/1996	ND	ND	ND	ND	ND	NA	NA	2.99
	11/6/1996	ND	ND	ND	ND	ND	NA	0.31	1.89
	2/12/1997	ND	ND	ND	ND	ND	NA	1.79	4.38
	5/19/1997	ND	NA	NA	NA	NA	NA	2.12	2.67
	9/4/1997	ND	ND	ND	ND	ND	NA	0.74	1.56
	12/9/1997	ND	ND	ND	ND	ND	NA	1.58	2.42
	3/12/1998	ND	ND	ND	ND	ND	NA	2.11	5.24
	6/2/1998	ND	ND	ND	ND	ND	NA	1.32	0.95
	9/9/1998	ND	ND	ND	ND	ND	NA	9.10	2.40
	12/21/1998	ND	ND	ND	ND	ND	NA	3.3	2.05
	3/9/1999	ND	ND	ND	ND	ND	NA	3.88	2.37
	3/14/2000	ND	ND	ND	ND	ND	ND	2.8	3.80
	12/11/2002	NA	NA	NA	NA	NA	NA	NA	2.32
	4/1/2003	NA	NA	NA	NA	NA	NA	NA	4.34
	6/3/2003	NA	NA	NA	NA	NA	NA	NA	3.92
	8/29/2003	<100	<0.5	<0.5	<0.5	<1	<2	0.84	3.05
	2/17/2004	NA	NA	NA	NA	NA	NA	NA	3.22
	8/19/2004	<100	<0.5	<0.5	<0.5	<1	<2	1.33	2.68
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	9.23

TABLE 3
HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

Well No.	Sample Date ¹	TPH-g ^{2,9} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Perimeter Compliance Well - Southern Boundary									
MW-20	1989	18,000	3,800	NA	NA	NA	NA	NA	NM
	4/26/1996	57,000	14,000	6,300	2,100	10,000	NA	NA	3.29
	7/9/1996	31,000	13,000	1,700	1,200	2,500	NA	NA	2.93
	11/6/1996	20,000	10,000	1,300	1,000	2,200	NA	0.15	2.83
	2/12/1997	32,000	8,200	1,000	1,400	2,700	NA	0.13	2.18
	5/19/1997	22,000	1,400	96	360	1,900	NA	0.13	2.78
	9/4/1997	200	12	30	ND	58	NA	0.09	0.33
	12/9/1997	200	1.5	0.5	1.2	1.6	NA	0.45	1.22
	3/12/1998	<50	<0.5	<0.5	<0.5	<1.0	NA	0.35	4.33
	6/2/1998	<50	<0.5	<0.5	<0.5	<1.0	NA	0.47	3.74
	9/9/1998	350	3.5	1.3	1.9	8.2	NA	0.45	2.11
	12/21/1998	510	4.2	<0.5	<0.5	1.4	NA	2.8	1.26
	3/9/1999	470	<0.5	1.1	1.1	<1.0	NA	0.90	0.96
	6/15/1999	230	<0.5	0.9	1.5	2.3	30	0.55	2.29
	9/23/1999	440	<0.5	1.4	1.3	1.4	NA	0.18	1.05
	12/7/1999	250	<0.5	<0.5	0.08	1.2	NA	0.88	0.65
	3/14/2000	55	<0.5	<0.5	<0.5	<1.0	21	1.2	2.26
	6/6/2000	270	1	<0.5	<0.5	1.9	88	0.20	0.81
	9/13/2000	140	<0.5	2.5	0.8	<1.0	140	0.38	0.51
	12/7/2000	640	2	15	1.1	2.4	320	0.65	-0.20
	3/14/2001	<50	<0.5	<0.5	<0.5	<1.0	<5.0	3.75	3.51
	6/17/2001	170	0.6	4.6	<0.5	<1.0	31	0.52	1.60
	9/12/2001	540	0.6	14.0	<0.5	<1.0	380	1.70	0.01
	12/13/2001	300	0.7	7.4	0.6	1.7	190	0.49	1.31
	3/14/2002	370	0.4 J	13	0.8	0.6 J	240	0.44	0.91
	6/5/2002	470	0.5 J	15	0.4 J	0.6 J	190	0.32	1.11
	9/12/2002	440	<0.50	<0.50	<0.50	<1.5	220	0.37	0.86
	12/12/2002	130	1.8	<1.0	0.36 J	<3.0	76	1.27	1.09
	4/1/2003	<100	<0.5	<0.5	<0.5	<1	10	0.47	4.15
	6/3/2003	<100	<0.5	<0.5	<0.5	<1	14	0.41	4.15
	8/29/2003	<100	<0.5	<0.5	<0.5	<1	9.1	0.64	3.31
	2/17/2004	NA	NA	NA	NA	NA	NA	NA	3.18
	8/19/2004	<100	<0.5	<0.5	<0.5	<1	8.9	0.47	2.50
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	9.26

TABLE 3

**HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA**

Well No.	Sample Date ¹	TPH-g ^{2,9} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Perimeter Compliance Well - Southern Boundary (Continue)									
MW-21	1989	10,000	NA	NA	NA	NA	NA	NA	NM
	4/26/1996	310,000	10,000	7,200	6,100	31,000	NA	NA	2.75
	7/9/1996	70,000	8,800	4,800	2,100	6,900	NA	NA	2.43
	11/6/1996	51,000	5,800	2,800	1,300	3,400	NA	0.14	2.41
	2/12/1997	49,000	5,700	1,800	1,600	3,100	NA	0.16	1.39
	5/19/1997	46,000	4,300	420	1,600	3,400	NA	0.08	2.42
	9/4/1997	13,000	780	120	750	460	NA	0.04	0.30
	12/9/1997	13,000	1,100	160	9	440	NA	0.19	1.70
	3/12/1998	1,200	1.8	3.2	2.5	3	NA	0.4	3.32
	6/2/1998	940	2.9	<0.5	1.8	2.9	NA	0.6	2.56
	9/9/1998	9,800	560	36	660	630	NA	0.54	2.57
	12/21/1998	16,000	2,500	490	560	1,100	NA	0.85	0.72
	3/9/1999	24,000	4,500	1,100	410	1,800	NA	0.57	1.44
	6/15/1999	26,000	4,200	1,200	870	1,700	<200	0.40	2.78
	9/23/1999	3,200	99	<1	30	24	NA	0.47	0.69
	12/7/1999	6,000	25	<5	50	21	NA	0.48	0.53
	3/14/2000	3,800	1,300	41	130	89	77	0.24	1.58
	6/6/2000	2,000	270	<1	3.5	15	98	0.23	0.78
	9/13/2000	2,500	4.8	<0.5	<0.5	5.4	73	0.16	0.88
	12/7/2000	3,500	8.9	32	10	4	140	0.41	-0.30
	3/14/2001	500	87	4.6	6.0	5.6	16	0.34	2.38
	6/17/2001	950	48	15	1	1.7	46	0.34	0.88
	9/12/2001	6,900	9.4	130	3.1	5.6	31	0.36	-0.50
	12/13/2001	3,000	8.2	67	1.6	3.0	57	1.18	0.88
	3/14/2002	2,100	<0.5	19	<0.5	1 J	50	0.44	0.13
	6/5/2002	3,300	<0.5	68	<0.5	1.9	60 E	0.44	0.68
	9/12/2002	1,300	<0.50	<0.50	<0.50	<1.5	28	0.30	0.58
	12/12/2002	710	1.3	<1.0	<1.0	<3.0	37	0.58	0.88
	4/1/2003	<100	<0.5	<0.5	<0.5	<1	<2	0.46	3.82
	6/3/2003	75 J	<0.5	<0.5	<0.5	<1	8.1	0.31	3.57
	8/29/2003	29 J	<0.5	<0.5	<0.5	<1	12	0.42	2.99
	2/17/2004	130	<0.5	<0.5	<0.5	<1	5.6	1.15	3.07
	8/19/2004	100	<0.5	<0.5	<0.5	<1	7.7	0.44	1.91
	2/10/2005	53 J	<0.5	<0.5	<0.5	<0.5	<2	1.39	3.43

TABLE 3
HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

Well No.	Sample Date ¹	TPH-g ^{2,3} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Wells in the Center of the Original Plume									
MW-22	11/1/1988	NA	7,700	NA	NA	NA	NA	NA	NM
	1989	1,000	414	NA	NA	NA	NA	NA	NM
	8/9/1990	456,000	8,600	NA	NA	NA	NA	NA	NM
	12/17/1991	223,000	13,893	NA	NA	NA	NA	NA	NM
	9/25/1992	200,000	15,700	NA	NA	NA	NA	NA	NM
	10/26/1995	69,000	5,800	NA	NA	NA	NA	NA	NM
	1/26/1996	19,000	1,100	NA	NA	NA	NA	NA	NM
	4/26/1996	6,000	230	180	ND	1,400	NA	NA	5.00
	7/9/1996	19,000	860	1,100	460	3,700	NA	NA	4.43
	11/6/1996	31,000	2,700	1,900	570	6,400	NA	0.14	4.19
	2/12/1997	51,000	5,800	4,800	800	9,300	NA	0.46	4.80
	5/19/1997	59,000	6,100	5,000	700	9,900	NA	0.18	4.47
	9/4/1997	7,400	3,800	3,500	830	76	NA	0.35	3.18
	12/9/1997	3,100	340	250	35	510	NA	0.16	4.01
	3/12/1998	23,000	1,400	730	61	2,300	NA	0.34	4.99
	6/2/1998	57,000	7,600	7,100	440	7,600	NA	0.32	4.51
	9/9/1998	49,000	5,300	2,800	820	8,100	NA	0.38	2.73
	12/21/1998	48,000	5,400	3,100	650	7,200	NA	1.36	2.00
	3/9/1999	49,000	4,900	2,200	650	8,300	NA	0.42	1.77
	6/15/1999	66,000	5,100	3,400	800	8,800	<200	0.40	2.81
	9/23/1999	67,000	6,600	2,700	740	11,000	NA	0.81	1.99
	12/7/1999	NA	NA	NA	NA	NA	NA	NA	1.41
	3/14/2000	35,000	2,900	2,700	620	6,000	<500	0.22	3.51
	6/6/2000	63,000	8,900	4,500	1,300	11,000	<500	0.37	2.51
	9/13/2000	65,000	8,500	1,800	1,300	10,000	<500	0.18	5.21
	12/7/2000						Well MW22 was dry and was not sampled.		
	3/14/2001	49,000	4,400	3,800	840	9,700	<100	0.29	4.51
	6/17/2001	62,000	13,000	3,300	1,200	12,000	<250	0.29	3.21
	9/12/2001	67,000	15,000	400	1,400	11,000	<500	0.24	1.81
	12/13/2001	27,000	1,700	330	270	4,900	<250	1.25	2.81
	3/14/2002						Well MW22 was dry and was not sampled.		
	12/11/2002						Well MW22 was dry and was not sampled.		
	4/1/2003	7,800 J	8,000	400	260	650	<200	0.24	3.99
	6/3/2003	33,000	13,000	2,500	<100	5,800	176 J	0.24	3.27
MW-22 has been abandoned (see Section 3.7 of 2003 Well Installation Report).									

MW-23	11/1/1988	7,000	8,800	NA	NA	NA	NA	NA	NM
	1989	NA	2,830	NA	NA	NA	NA	NA	NM
	4/26/1996	6,900	1,600	30	0	30	NA	NA	NM
	7/9/1996	8,000	1,800	40	40	40	NA	NA	5.07
	9/4/1997	59,000	NA	NA	NA	NA	NA	0.12	3.12
	12/9/1997	8,900	720	35	100	100	NA	0.44	NM
	3/12/1998	6,600	55	6.3	30	15	NA	0.36	NM
	6/2/1998	300	1	ND	0.8	ND	NA	0.48	NM
	9/9/1998	980	12	ND	4.7	7	NA	0.37	2.64
	12/21/1998	160	0.6	ND	ND	ND	NA	0.8	NM
	3/9/1999	90	ND	ND	ND	ND	NA	3.80	NM
	6/15/1999	160	16	ND	ND	1.3	ND	0.36	NM
	9/23/1999	110	ND	ND	ND	ND	NA	0.22	NM
	12/7/1999	150	ND	ND	ND	ND	NA	0.95	NM
	3/14/2000	ND	ND	ND	ND	ND	ND	0.78	NM
	6/6/2000	99	3.6	2.3	ND	1.7	83	0.27	1.76
	9/13/2000	230	17	1.7	0.6	3.5	12	0.15	1.86
	12/7/2000	190	2.5	7.3	1.7	8.1	6	0.19	0.76
	3/14/2001	ND	ND	<0.5	<0.5	<1.0	<5.0	0.44	4.66
	6/17/2001	<50	<0.5	1.1	<0.5	<1.0	<5.0	0.42	1.66
	9/12/2001	93	<0.5	3.3	<0.5	<1.0	9	0.33	0.01
	12/13/2001	37	0.6	ND	ND	0.9	ND	0.24	3.16
	3/14/2002	50 J	0.5 J	<0.5	0.8	0.7 J	<5.0	0.25	1.81
	6/5/2002	78	0.5 J	3.1	0.5	0.8 J	<5.0	0.50	1.4
	9/12/2002	79	0.38 J	0.25 J	<0.50	<1.5	1.5 J	0.11	0.2
	12/17/2002	<50	<0.50	<0.50	<0.50	<1.5	<2.0	0.36	0.94
	4/1/2003	<100	<0.5	<0.5	<0.5	<1	<2	0.55	4.99
	6/3/2003	<100	<0.5	<0.5	<0.5	<1	<2	0.15	3.98
	8/29/2003	<100	<0.5	<0.5	<0.5	<1	0.75 J	0.45	3.09
	2/17/2004	NA	NA	NA	NA	NA	NA	NA	3.23
	8/19/2004	<100	<0.5	<0.5	<0.5	<1	<2	0.47	1.13
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	9.50

TABLE 3
HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

Well No.	Sample Date ¹	TPH-g ^{2,9} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Wells in the Center of the Original Plume									
MW-23X	7/9/1996	NA	NA	130	1,200	130	NA	NA	5.07
	11/6/1996	NA	NA	NA	NA	NA	NA	NA	NM
	9/4/1997	NA	NA	NA	NA	NA	NA	NA	2.64
	12/9/1997	59,000	19,000	220	1,700	640	NA	0.52	NM
	3/12/1998	58,000	12,000	110	670	440	NA	0.27	NM
	6/2/1998	42,000	16,000	180	1,100	330	NA	0.22	NM
	9/9/1998	25,000	9,800	130	83	240	NA	0.40	NM
	12/21/1998	22,000	7,700	61	5.5	300	NA	0.78	NM
	3/9/1999	33,000	11,000	100	<25	560	NA	0.69	NM
	6/15/1999	20,000	8,000	140	420	270	<500	0.53	NM
	9/23/1999	14,000	3,400	73	400	300	NA	0.62	NM
	12/7/1999	5,600	1,800	25	63	100	NA	4.51	NM
	3/14/2000	7,800	1,100	21	340	160	170	0.29	NM
	6/6/2000	2,400	130	22	55	39	50	0.36	0.86
	9/13/2000	520	30	4.7	2.8	2.7	22	0.37	1.46
	12/7/2000	1,800	200	27	<0.5	5.7	72	0.50	0.36
	3/14/2001	480	11	10	3.3	<1.0	27	0.43	1.66
	6/17/2001	660	29	12	2.9	5.2	54	0.56	0.76
	9/12/2001	98	<0.5	3.4	<0.5	<1.0	8	0.63	-0.20
	12/13/2001	230	2	6.9	0.7	1.6	4	0.58	1.61
	3/14/2002	520	0.7	26	0.9	<1.5	<5.0	0.23	1.76
	6/5/2002	460	0.7	16	2.3	<1.5	42	1.49	0.56
	9/12/2002								
	12/11/2002								
	4/1/2003	<100	1.4	<0.5	<0.5	<1	5.5	0.51	2.62
	6/3/2003	28 J	0.81	<0.5	<0.5	<1	2.3 J ¹⁰	0.49	4.38
	8/29/2003	29 J	<0.5	<0.5	<0.5	<1	1.2 J	0.75	3.10
	2/17/2004	120	<0.5	<0.5	<0.5	<1	2.3	0.78	3.57
	8/19/2004	50 J	<0.5	<0.5	<0.5	<1	1.6 J	0.43	2.94
	2/10/2005	36 J	<0.5	<0.5	<0.5	<0.5	0.70 J	0.64	5.21

Well MW23X was dry and was not sampled.

Well MW23X was dry and was not sampled.

TABLE 3
HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

Well No.	Sample Date ¹	TPH-g ^{2,9} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Perimeter Wells - South-Southeastern Boundary									
MW-25	1989	10,000	NA	NA	NA	NA	NA	NA	NM
	8/9/1990	NA	19,300	NA	NA	NA	NA	NA	NM
	12/17/1991	24,000	3,224	NA	NA	NA	NA	NA	NM
	9/25/1992	131,000	7,130	NA	NA	NA	NA	NA	NM
	9/9/1998	25,000	9,800	130	83	240	NA	NA	NM
MW-25	10/26/1995	4,000	76	NA	NA	NA	NA	NA	NM
	1/26/1996	14,000	510	NA	NA	NA	NA	NA	NM
	4/26/1996	11,000	3,600	810	ND	2,100	NA	NA	4.77
	7/9/1996	24,000	3,300	560	580	860	NA	NA	4.13
	11/6/1996	17,000	1,800	140	410	440	NA	0.18	3.51
	2/12/1997	5,000	48	10	87	92	NA	0.13	5.30
	5/19/1997	11,000	530	13	180	120	NA	0.24	4.30
	9/4/1997	3,100	450	24	120	7,400	NA	0.24	3.12
	12/9/1997	7,400	820	78	6	340	NA	0.14	3.00
	3/12/1998	890	5.3	1.5	5.2	8	NA	0.41	5.90
	6/2/1998	2,600	120	4.4	64	45	NA	0.28	4.92
	9/9/1998	2,900	120	10	38	54	NA	0.60	3.45
	12/21/1998	1,500	68	3	6.6	5.9	NA	0.86	2.41
	3/9/1999	3,800	230	23	56	54	NA	0.30	2.24
	6/15/1999	2,000	220	48	7.7	58	ND	0.44	2.63
	9/23/1999	4,300	340	47	33	120	NA	0.30	2.17
	12/7/1999	2,000	210	27	21	83	NA	0.45	1.81
	3/14/2000	2,100	490	64	1.2	67	<20	0.21	2.86
	6/6/2000	7,300	1,600	89	70	340	<50	0.25	3.31
	9/13/2000	2,700	500	60	1.1	58	<5.0	0.25	5.31
	12/7/2000	3,800	440	71	13	80	<10	0.23	1.56
	3/14/2001	22,000	4,000	2000	370	3300	110	0.44	4.31
	6/17/2001	5,300	1,600	110	<5	250	<50	0.53	3.91
	9/12/2001	2,900	1,200	85	10	56	<50	0.52	2.71
	12/13/2001	710	21	18	5.4	7.8	18	0.29	2.01
	3/14/2002	430 C2	2.0	6.3	<0.5	0.6 J	26	0.74	1.56
	6/5/2002	160	0.7	5.8	0.5 J	0.5 J	17	0.36	2.06
	9/12/2002	160	0.27 J	<0.50	<0.50	<1.5	15	0.25	1.16
	12/12/2002	98	<1.0	<1.0	<1.0	<3.0	9.3	0.81	1.91
	4/1/2003	<100	2.2	<0.5	<0.5	2.9	17	0.37	4.87
	6/3/2003	100	1.4	0.75	7.7	39.8	3.2 J ¹⁰	0.52	4.90
	8/29/2003	<100	<0.5	<0.5	<0.5	0.89 J	1.2 J	0.79	4.07
	2/17/2004	150	0.72	<0.5	<0.5	0.87	1.0 J	0.56	4.39
	8/19/2004	30 J	0.37 J	<0.5	<0.5	<1	2.0 J	0.62	3.59
	2/10/2005	25 J	<0.5	<0.5	<0.5	<0.5	<2	2.54	6.36
MW-26									
MW-26	11/1/1988	NA	10	NA	NA	NA	NA	NA	NM
	1989	ND	10	NA	NA	NA	NA	NA	NM
	4/26/1996	ND	ND	ND	ND	ND	NA	NA	4.82
	7/9/1996	ND	ND	ND	ND	ND	NA	NA	4.15
	11/6/1996	ND	ND	ND	ND	ND	NA	0.48	3.12
	2/12/1997	ND	ND	ND	ND	ND	NA	2.43	5.47
	5/19/1997	270	ND	0.6	ND	ND	NA	0.57	4.34
	9/4/1997	ND	ND	ND	ND	ND	NA	0.47	3.18
	12/9/1997	ND	ND	ND	ND	ND	NA	0.21	3.22
	3/12/1998	ND	ND	ND	ND	ND	NA	4.14	5.64
	6/2/1998	ND	ND	ND	ND	ND	NA	1.3	5.21
	9/9/1998	ND	ND	ND	ND	ND	NA	2.00	3.70
	12/21/1998	ND	ND	ND	ND	ND	NA	0.8	2.67
	3/9/1999	ND	ND	ND	ND	ND	NA	2.75	2.92
	3/14/2000	ND	ND	ND	ND	ND	ND	2.45	3.93
	3/14/2001	ND	0.5	ND	0.6	1.6	ND	0.63	5.38
	3/14/2002	30 J/C2	<0.5	<0.5	<0.5	<1.5	2 J	2.01	3.38
	12/17/2002	20 J	<0.50	<0.50	<0.50	<1.5	1.6 J	1.24	3.19
	4/1/2003	NA	NA	NA	NA	NA	NA	NA	5.54
	6/3/2003	NA	NA	NA	NA	NA	NA	NA	5.19
	8/29/2003	<100	<0.5	<0.5	<0.5	<1	1.5 J	0.69	4.28
	2/17/2004	NA	NA	NA	NA	NA	NA	NA	4.69
	8/19/2004	<100	<0.5	<0.5	<0.5	<1	0.82 J	0.45	3.92
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	8.64

TABLE 3
HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

Well No.	Sample Date ¹	TPH-g ^{2,9} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Perimeter Wells - South-Southeastern Boundary									
MW-27	1989	ND	ND	NA	NA	NA	NA	NA	NM
	7/9/1996	ND	ND	ND	ND	ND	NA	NA	2.83
	11/6/1996	ND	ND	ND	ND	ND	NA	0.31	1.92
	2/12/1997	ND	ND	ND	ND	ND	NA	3.55	4.34
	5/19/1997	ND	ND	ND	ND	ND	NA	2.17	2.81
	9/4/1997	ND	ND	ND	ND	ND	NA	0.42	1.84
	12/9/1997	ND	ND	ND	ND	ND	NA	NA	NM
	3/12/1998	ND	ND	ND	ND	ND	NA	4.58	5.09
	6/2/1998	ND	ND	ND	ND	ND	NA	3.95	4.12
	9/9/1998	ND	ND	ND	ND	ND	NA	1.85	2.59
	12/21/1998	ND	ND	ND	ND	ND	NA	0.78	1.68
	3/9/1999	ND	ND	ND	ND	ND	NA	1.67	1.86
	3/14/2000	ND	ND	ND	ND	ND	ND	2.89	2.94
	3/14/2001	ND	ND	ND	ND	ND	ND	3.56	4.69
	3/14/2002	<50	<0.5	<0.5	<0.5	<1.5	<5	0.33	2.69
	12/17/2002	<50	<0.50	<0.50	<0.50	<1.5	<2.0	1.65	3.46
	4/1/2003	NA	NA	NA	NA	NA	NA	NA	5.85
	6/3/2003	NA	NA	NA	NA	NA	NA	NA	5.50
	8/29/2003	<100	<0.5	<0.5	<0.5	<1	<2	0.69	4.52
	2/17/2004	NA	NA	NA	NA	NA	NA	NA	4.67
	8/19/2004	<100	<0.5	<0.5	<0.5	<1	<2	0.52	3.95
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	8.84
Wells Surrounding Underground Storage Tanks									
MW-30	9/4/1997	2,900	20,000	15,000	2,700	16,000	NA	NA	NA
	12/9/1997	130,000	23,000	11,000	490	15,000	NA	0.21	NA
	3/12/1998	120,000	16,000	2,700	1,600	9,300	NA	0.46	NA
	6/2/1998	84,000	21,000	4,000	1,000	7,100	NA	0.18	NA
	9/9/1998	76,000	24,000	2,300	2,400	5,600	NA	0.45	NA
	12/21/1998	72,000	21,000	990	1,800	2,900	NA	0.71	NA
	3/9/1999			No measurements were taken.	Well was silted up above water table.				
	6/15/1999	65,000	11,000	720	1,100	5,000	1,500	0.46	NA
	9/22/1999			No measurements were taken.	Well was silted up above water table.				
	12/7/1999			No measurements were taken.	Well was silted up above water table.				
	3/14/2000			No measurements were taken.	Well was silted up above water table.				
	6/5/2000			No measurements were taken.	Well was silted up above water table.				
	9/13/2000	22,000	6,600	55	660	63	2,100	0.26	3.00
	12/7/2000	38,000	14,000	300	1,300	1,000	11,000	0.26	2.40
	3/14/2001	ND	ND	ND	ND	ND	ND	6.41	6.25
MW-30 has been abandoned (see Section 3.2 of 2001 Quarterly Report #2), and EW-19 will now be monitored in its place.									
MW-31	6/5/2002	110,000	25,000	31,000	2,900	15,000	<2,500 F2	0.30	4.33
	9/12/2002	120,000	26,000	31,000	2,700	15,000	<1,000	0.34	3.33
	12/12/2002	77,000	16,000	22,000	1,600	9,800	<1,000	0.69	2.93
	4/1/2003	75,000	28,000	19,000	1,600	11,100	14 J	0.31	5.12
	6/3/2003	47,000	8,600	11,000	1,100	7,300	57 J	0.33	3.42
	8/29/2003	21,000	5,000	4,700	130	2,010	50 J	1.58	-3.20
	2/17/2004	26,000	7,000	1,800	1,100	1,400	120	1.01	-0.06
	8/19/2004	13,000	6,200	64	290	25 J	280	0.36	-0.40
	2/10/2005	33 J	<0.5	<0.5	<0.5	<0.5	3.5	1.74	4.28
MW-32	6/5/2002	6,900	2,000	35	<10	390	3,400	0.24	1.71
	9/12/2002	5,100	<10	<10	<10	<30	2,800	0.75	0.16
	12/17/2002	11,000	2,700	4.8 J	5.0 J	42	10,000	0.22	1.14
	12/17/2002	11,000	2,700	4.8 J	5.0 J	42	10,000	0.22	1.14
	4/1/2003	200	<0.5	<0.5	<0.5	<1	10,000	0.35	0.91
	6/3/2003	6,300	1,300	<10	<10	<20	5,700	0.41	0.50
	8/29/2003	20,000	5,500	<25	<25	<50	7,200	1.51	0.45
	2/17/2004	19,000	2,800	<25	<25	<50	14,000	0.75	0.34
	8/19/2004	7,200	1,000	<0.5	<0.5	0.95 J	5,400	0.44	0.82
	2/10/2005	10,000	690	<50	<50	<50	13,000	2.82	2.68

TABLE 3

**HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA**

Well No.	Sample Date ¹	TPH-g ^{2,3} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Wells in the Center of the Original Plume									
MW-33	6/5/2002	4,100	980	39	<5 F2	970	150	0.28	0.35
	9/12/2002	430	<0.50	<0.50	<0.50	<1.5	47	0.20	-1.7
	12/12/2002	340	150	1.8	5.5	34	110	0.49	-0.3
	4/1/2003	10,000	11,000	190	190	1,000	86	0.50	4.76
	6/3/2003	2,700	780	5.7	460	45	11	0.24	3.40
	8/29/2003	28,000	8,800	680	84	4,700	72 J	0.61	1.98
	2/17/2004	5,700	2,000	73	340	610	47	0.86	0.84
	8/19/2004	7,200	1,900	150	52	1,600	540	0.35	2.68
	2/10/2005	10,000	2,600	500	280	1,370	<200	1.26	4.97
Perimeter Compliance Well - Southern Boundary									
MW-34	2/17/2004	15 J	1.7	<0.5	<0.5	<1	<2	0.40	3.28
	8/19/2004	<100	<0.5	<0.5	<0.5	<1	<2	0.42	2.81
	2/10/2005	NA	NA	NA	NA	NA	NA	NA	NM
Wells Surrounding Underground Storage Tanks									
MW-35	2/17/2004	12,000	3,100	8.0	110	263	130	0.83	1.10
	8/19/2004	11,000	5,300	7.4	490	165	280	0.41	1.87
	2/10/2005	3,600	1500	<5	120	32	43	1.6	4.26
Upgradient Perimeter Well									
MW-36	2/17/2004	180	4.6	<0.5	<0.5	<1	<2	1.80	5.41
	8/19/2004	<100	<0.5	<0.5	<0.5	<1	<2	0.31	4.37
	2/10/2005	89 J	<0.5	<0.5	<0.5	<0.5	<2	3.33	7.12
Wells Surrounding Underground Storage Tanks									
EW-19	6/17/2001	13,000	4,800	12	24	8.3	5,300	0.85	3.90
	9/12/2001	26,000	7,800	230	450	1,100	13,000	1.38	3.29
	12/13/2001	54,000	23,000	250	1,500	820	18,000	0.26	3.30
	3/14/2002	11,000 C2	2,900	66	45	1,000	14,000	0.25	3.6
	12/11/2002	NA	NA	NA	NA	NA	NA	NA	3.02
	4/1/2003	3,200	2,200	<5	100	23	760	1.77	1.03
	6/3/2003	7,100	2,900	<10	15	<20	1,000	0.89	1.51
EW-43	2/17/2004	1,400	100	<0.5	40	1.84 J	26	0.64	1.27
	8/19/2004	600	72	<0.5	1.1	<1	8.9	0.34	1.63
	2/10/2005	230	2.9	<0.5	<0.5	<0.5	1.5 J	0.93	4.48

TABLE 3
HISTORICAL SUMMARY OF GROUNDWATER MONITORING DATA
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

Well No.	Sample Date ¹	TPH-g ^{2,3} (µg/L) ³	Benzene (µg/L) ³	Toluene (µg/L) ³	Ethylbenzene (µg/L) ³	Xylenes (µg/L) ³	MTBE (µg/L) ³	Dissolved Oxygen (mg/L) ⁴	GW Elevation (feet MSL) ^{5,6}
Other Site Well									
MW-X	7/8/1996	2,000	2,300	NA	NA	NA	NA	NA	NA
MW-Y	7/8/1996	11,000	18,000	NA	NA	NA	NA	NA	NA
RW-1	10/26/1995 1/26/1996 7/9/1996	NA 4,000 23,000	5.4 5,200 11,000	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA
RW-2	10/26/1995 1/26/1996 7/9/1996	NA ND 2,400	0.4 250 2,300	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA
RW-3	10/26/1995 1/26/1996 7/9/1996	NA ND 600	ND ND 280	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA
RW-4	10/26/1995 1/26/1996 7/9/1996	NA ND ND	12 24 7.6	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA

NOTES:

Multi-phase extraction system began in September 1996.

1. Field parameters were measured on February 9, 2005, groundwater samples were collected on February 10, 2005, and Groundwater elevations measured on February 14,
2. TPH-g - total petroleum hydrocarbons as gasoline.
3. µg/l - micrograms per liter.
4. mg/l - milligrams per liter.
5. MSL - mean sea level.
6. Wells resurveyed on June 12, 2002 by Base Geodetic Branch. New casing elevations used beginning with the June 2002 event.
7. A duplicate sample was collected and the higher of the two results reported.
8. MW-3 converted to AS-1 in September 1997
9. Starting in 2003, TPH-g was quantified using EPA 8260B. Previous results are by EPA 8015M.

Data Qualifiers

NA: not analyzed

NM: not measured

< : Not detected at the stated reporting limit

ND: not detected

C2: Sample pH was 7. VOA vial marked preserved.

C2A: Sample pH was 4

D: The result is from dilution.

J: Estimated Concentration. The result is less than the practical quantitation limit (PQL), but greater than the method detection limit (MDL).

E: Estimated value. Interfering non-target peak coeluted with MTBE. Sample reanalyzed with same results. MTBE could not be verified by GC/MS due to lack of sufficient sample volume.

F2: The PQL or method detection limit is elevated because of matrix interferences and because the sample required diluting.

TABLE 4

**TOTAL AMOUNT OF HYDROCARBONS (IN POUNDS)
REMOVED FROM VAPOR PHASE (CATOX)**
3/2/2004 - 2/24/2005

**NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA**

Date	Time	LEL ¹ (%)	Flow Rate (scfm) ²	Concentration (mg/m ³) ³	Hour Meter Reading (hours)	Hours	Mass Removed (lbs) ⁴	Cumulative Mass Removed (lbs) ⁴
3/2/2004	8:30 AM	6	99	2,952	44,841.3	0.0	0.00	0
3/9/2004	9:15 AM	NA	NA	NA	44,989.4	148.1	NA	0
3/17/2004	8:00 AM	NA	NA	NA	45,033.3	43.9	NA	0
3/19/2004	10:00 AM	7	92	3,444	45,080.0	46.7	55.42	55
3/23/2004	11:00 AM	7	100	3,444	45,178.0	98.0	126.41	182
3/30/2004	9:30 AM	8	78	3,936	45,327.5	149.5	171.91	354
4/7/2004	10:00 AM	8	96	3,936	45,520.1	192.6	272.57	626
4/14/2004	8:45 AM	8	99	3,936	45,684.1	164.0	239.35	866
4/20/2004	10:30 AM	8	97	3,936	45,826.1	142.0	203.06	1,069
4/28/2004	7:00 AM	NA	NA	NA	NA	NA	NA	1,069
4/30/2004	10:30 AM	NA	NA	NA	NA	NA	NA	1,069
5/4/2004	7:30 AM	NA	NA	NA	NA	NA	NA	1,069
5/5/2004	1:30 PM	NA	NA	NA	NA	NA	NA	1,069
5/11/2004	12:30 PM	9	60	4,428	46,186.2	360.1	358.33	1,427
5/18/2004	7:00 AM	8	65	3,936	46,345.3	159.1	152.45	1,579
5/25/2004	11:00 AM	9	82	4,428	46,516.4	171.1	232.69	1,812
6/1/2004	12:15 PM	NA	72	NA	46,686.1	169.7	NA	1,812
6/8/2004	12:20 PM	10	83	4,920	46,853.7	167.6	256.34	2,069
6/15/2004	7:30 AM	NA	NA	NA	47,004.5	150.8	NA	2,069
6/22/2004	2:30 PM	9	NA	4,428	47,150.2	145.7	NA	2,069
7/20/2004	4:20 PM	9	53	4,428	47,436.0	285.8	251.21	2,320
7/27/2004	10:55 AM	8	58	3,936	47,509.0	73.0	62.42	2,382
8/25/2004	6:30 AM	10	79	4,920	47,701.8	192.8	280.67	2,663
8/31/2004	11:15 AM	10	67	4,920	47,830.0	128.2	158.28	2,821
9/9/2004	10:00 AM	9.7	83	4,756	47,990.7	160.7	237.59	3,059
9/16/2004	9:15 AM	10.7	89	5,248	48,159.7	169.0	295.64	3,354
9/23/2004	1:00 PM	7.1	94	3,485	48,327.2	167.5	205.52	3,560
9/30/2004	1:30 PM	17.5	94	8,610	48,486.2	159.0	481.98	4,042
10/7/2004	10:30 AM	17.8	104	8,733	48,629.5	143.3	487.46	4,529
10/14/2004	11:00 AM	9.9	104	4,879	48,823.9	194.4	369.45	4,899
10/21/2004	11:00 AM	8.5	91	4,182	48,954.7	130.8	186.44	5,085
10/28/2004	8:00 AM	6.8	93	3,342	49,077.3	122.6	142.70	5,228
11/4/2004	10:30 AM	4.7	95	2,296	49,246.7	169.4	138.39	5,366
11/11/2004	9:00 AM	8.5	104	4,182	49,434.9	188.2	306.57	5,673
11/18/2004	8:30 AM	7.3	104	3,567	49,576.0	141.1	196.05	5,869
11/24/2004	7:30 AM	7.1	99	3,485	49,718.0	142.0	183.50	6,052
12/2/2004	1:30 PM	10.0	104	4,920	49,878.0	160.0	306.63	6,359
12/9/2004	12:30 PM	6.8	99	3,321	50,043.9	165.9	204.29	6,563
12/16/2004	7:00 AM	6.7	99	3,280	50,160.3	116.4	141.57	6,705
12/23/2004	11:00 AM	6.9	90	3,403	50,203.2	42.9	49.21	6,754
12/29/2004	12:15 PM	6.7	91	3,301	50,238.2	35.0	39.37	6,793
1/6/2005	NM	0.0	NM	NM	NM	NM	0.0	6,793
1/13/2005	NM	0.0	NM	NM	NM	NM	0.0	6,793

TABLE 4

**TOTAL AMOUNT OF HYDROCARBONS (IN POUNDS)
REMOVED FROM VAPOR PHASE (CATOX)**
3/2/2004 - 2/24/2005

**NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA**

Date	Time	LEL ¹ (%)	Flow Rate (scfm) ²	Concentration (mg/m ³) ³	Hour Meter Reading (hours)	Hours	Mass Removed (lbs) ⁴	Cumulative Mass Removed (lbs) ⁴
1/21/2005	8:00 AM	2.2	80	1,082	50,270.6	32.4	10.51	6,804
1/27/2005	8:00 AM	0.9	87	435	50,386.1	115.5	16.36	6,820
2/3/2005	9:00 AM	0.8	90	410	50,401.4	15.3	2.11	6,822
2/10/2005	8:30 AM	1.6	89	791	50,473.9	72.5	19.12	6,842
2/18/2005	7:30 AM	0.8	74	402	50,523.6	49.7	5.53	6,847
2/24/2005	8:00 AM	1.0	65	472	50,547.8	24.2	2.78	6,850

Notes:

- 1. LEL: lower explosive limit
- 2. Scfm: standard cubic feet per minute
- 3. mg/m³: milligrams per cubic meter
- 4. lbs: pounds

NA: not applicable

NM: not measured

Data used to calculate total mass removed is taken from field logs.

LEL is calculated based on the measured inlet concentration for the reporting period (9/9/2004 - 2/24/2005).

System Notes:

- (a) System shutdown 4/28/04 to 5/5/04 to replace carbon beds.
- (b) System shutdown 6/23/04 due to low CATOX efficiency.
- (c) System restarted 7/13/04 after catalyst installation.
- (d) System shutdown 8/2/04 due to low CATOX efficiency and restarted 8/20/04.
- (e) System shutdown 8/27/04 to 8/28/04 to install CATOX blower.
- (f) System shutdown 1/4/2005 to 1/19/2005 due to circuit board failure.

TABLE 5

**TOTAL AMOUNT OF BENZENE AND TPH REMOVED
FROM THE LIQUID PHASE (LIQUID RING PUMP)**
3/2/2004 - 2/24/2005

**NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA**

Date	Drainmeter (gallons)	Water Removed (gallons)	Total Water Removed (gallons)	Benzene Concentration ¹ ($\mu\text{g/L}$) ²	Benzene Removed (lbs) ³	Total Benzene Removed (lbs) ³	Cumulative Removal (lbs) ³	TPH-g ⁴ Concentration ¹ ($\mu\text{g/L}$) ²	TPH-g ⁴ Removed (lbs) ³	Total TPH-g ⁴ Removed (lbs) ³	Cumulative Removal (lbs) ³
3/2/2004	43121	8,265	2,722,232	6.3	4.3E-04	0.000000	1.930	780	0.0538	0.000	53.35
3/9/2004	53081	9,960	2,732,192	6.3	5.2E-04	0.000524	1.930	780	0.0648	0.065	53.42
3/17/2004	55411	2,330	2,734,522	6.3	1.2E-04	0.000646	1.931	780	0.0152	0.080	53.43
3/19/2004	59977	4,566	2,739,088	6.3	2.4E-04	0.000886	1.931	780	0.0297	0.110	53.46
3/23/2004	66163	6,186	2,745,274	6.3	3.3E-04	0.001212	1.931	780	0.0403	0.150	53.50
3/30/2004	74878	8,715	2,753,989	6.3	4.6E-04	0.001670	1.932	780	0.0567	0.207	53.56
4/7/2004	79367	4,489	2,758,478	6.3	2.4E-04	0.001906	1.932	780	0.0292	0.236	53.59
4/14/2004	85904	6,537	2,765,015	6.3	3.4E-04	0.002250	1.932	780	0.0426	0.279	53.63
4/20/2004	91079	5,175	2,770,190	6.3	2.7E-04	0.002522	1.932	780	0.0337	0.312	53.66
4/28/2004	97433	6,354	2,776,544	6.3	3.3E-04	0.002856	1.933	780	0.0414	0.354	53.70
4/30/2004	98935	1,502	2,778,046	6.3	7.9E-05	0.002935	1.933	780	0.0098	0.363	53.71
5/4/2004	98935	0	2,778,046	6.3	0.0E+00	0.002935	1.933	780	0.0000	0.363	53.71
5/5/2004	NA	NA	2,778,046	6.3	NA	NA	1.933	780	NA	NA	53.71
5/11/2004	104987	6,052	2,784,098	6.3	3.2E-04	0.003253	1.933	780	0.0394	0.403	53.75
5/18/2004	112162	7,175	2,791,273	6.3	3.8E-04	0.003630	1.933	780	0.0467	0.449	53.80
5/25/2004	119167	7,005	2,798,278	6.3	3.7E-04	0.003998	1.934	780	0.0456	0.495	53.85
6/1/2004	124166	4,999	2,803,277	6.3	2.6E-04	0.004261	1.934	780	0.0325	0.528	53.88
6/8/2004	129111	4,945	2,808,222	6.3	2.6E-04	0.004521	1.934	780	0.0322	0.560	53.91
6/15/2004	134100	4,989	2,813,211	6.3	2.6E-04	0.004784	1.935	780	0.0325	0.592	53.94
6/22/2004	136991	2,891	2,816,102	6.3	1.5E-04	0.004936	1.935	780	0.0188	0.611	53.96
7/20/2004	143201	6,210	2,822,312	9.7	5.0E-04	0.005438	1.935	130	0.0067	0.618	53.97
7/27/2004	150060	6,859	2,829,171	9.7	5.6E-04	0.005994	1.936	130	0.0074	0.625	53.98
8/25/2004	165482	15,422	2,844,593	9.7	1.2E-03	0.007242	1.937	130	0.0167	0.642	53.99
8/31/2004	175976	10,494	2,855,087	9.7	8.5E-04	0.008092	1.938	130	0.0114	0.653	54.00
9/9/2004	190304	14,328	2,869,415	1.9	2.3E-04	0.008319	1.938	61	0.0073	0.661	54.01
9/16/2004	200379	10,075	2,879,490	1.9	1.6E-04	0.008479	1.938	61	0.0051	0.666	54.02
9/23/2004	210172	9,793	2,889,283	1.9	1.6E-04	0.008634	1.938	61	0.0050	0.671	54.02
9/30/2004	221035	10,863	2,900,146	1.9	1.7E-04	0.008806	1.939	61	0.0055	0.676	54.03
10/7/2004	232126	11,091	2,911,237	1.9	1.8E-04	0.008982	1.939	61	0.0056	0.682	54.03
10/14/2004	246803	14,677	2,925,914	1.9	2.3E-04	0.009215	1.939	61	0.0075	0.689	54.04
10/21/2004	260823	14,020	2,939,934	1.9	2.2E-04	0.009437	1.939	61	0.0071	0.697	54.05
10/28/2004	271537	10,714	2,950,648	1.9	1.7E-04	0.009607	1.939	61	0.0055	0.702	54.05
11/4/2004	286106	14,569	2,965,217	1.9	2.3E-04	0.009838	1.940	61	0.0074	0.709	54.06
11/11/2004	299785	13,679	2,978,896	1.9	2.2E-04	0.010055	1.940	61	0.0070	0.716	54.07
11/18/2004	313277	13,492	2,992,388	1.9	2.1E-04	0.010269	1.940	61	0.0069	0.723	54.07
11/24/2004	323836	10,559	3,002,947	1.9	1.7E-04	0.010436	1.940	61	0.0054	0.729	54.08
12/2/2004	337433	13,597	3,016,544	5.4	6.1E-04	0.011049	1.941	120	0.0136	0.742	54.09
12/9/2004	350529	26,693	3,043,237	5.4	1.2E-03	0.012252	1.942	120	0.0267	0.769	54.12
12/16/2004	361330	10,801	3,054,038	5.4	4.9E-04	0.012739	1.943	120	0.0108	0.780	54.13
12/23/2004	372558	11,228	3,065,266	5.4	5.1E-04	0.013245	1.943	120	0.0112	0.791	54.14
12/29/2004	382331	9,773	3,075,039	5.4	4.4E-04	0.013685	1.944	120	0.0098	0.801	54.15

TABLE 5

**TOTAL AMOUNT OF BENZENE AND TPH REMOVED
FROM THE LIQUID PHASE (LIQUID RING PUMP)**
3/2/2004 -2/24/2005

**NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA**

Date	Drainmeter (gallons)	Water Removed (gallons)	Total Water Removed (gallons)	Benzene Concentration ¹ ($\mu\text{g/L}$) ²	Benzene Removed (lbs) ³	Total Benzene Removed (lbs) ³	Cumulative Removal (lbs) ³	TPH-g ⁴ Concentration ¹ ($\mu\text{g/L}$) ²	TPH-g ⁴ Removed (lbs) ³	Total TPH-g ⁴ Removed (lbs) ³	Cumulative Removal (lbs) ³
1/6/2005	382331	0	3,075,039	5.4	0.0E+00	0.013685	1.944	120	0.0000	0.801	54.15
1/13/2005	382331	0	3,075,039	5.4	0.0E+00	0.013685	1.944	120	0.0000	0.801	54.15
1/21/2005	393558	11,227	3,086,266	5.4	5.1E-04	0.014191	1.944	120	0.0112	0.812	54.16
1/27/2005	408476	14,918	3,101,184	5.4	6.7E-04	0.014864	1.945	120	0.0149	0.827	54.18
2/3/2005	415369	6,893	3,108,077	5.4	3.1E-04	0.015174	1.945	120	0.0069	0.834	54.18
2/10/2005	427955	12,586	3,120,663	5.4	5.7E-04	0.015742	1.946	120	0.0126	0.847	54.20
2/18/2005	439341	11,386	3,132,049	5.4	5.1E-04	0.016255	1.946	120	0.0114	0.858	54.21
2/24/2005	448190	8,849	3,140,898	5.4	4.0E-04	0.016653	1.947	120	0.0089	0.867	54.22

Notes:

1. Benzene and TPH-g are sampled quarterly.
2. ug/l: micrograms per liter. Concentration is based on influent concentrations.
3. lbs: pounds
4. TPH-g: total petroleum hydrocarbons, gasoline range

System Notes:

- (a) System shutdown 4/28/04 to 5/5/04 to replace carbon beds.
- (b) System shutdown 6/23/04 due to low CATOX efficiency.
- (c) System restarted 7/13/04 after catalyst installation.
- (d) System shutdown 8/2/04 due to low CATOX efficiency and restarted 8/20/04.
- (e) System shutdown 8/27/04 to 8/28/04 to install CATOX blower.
- (f) System shutdown 1/4/2005 to 1/19/2005 due to circuit board failure.



REFERENCE: USGS 7.5 Minute Series Point Mugu, California Quad,
Photorevised 1974

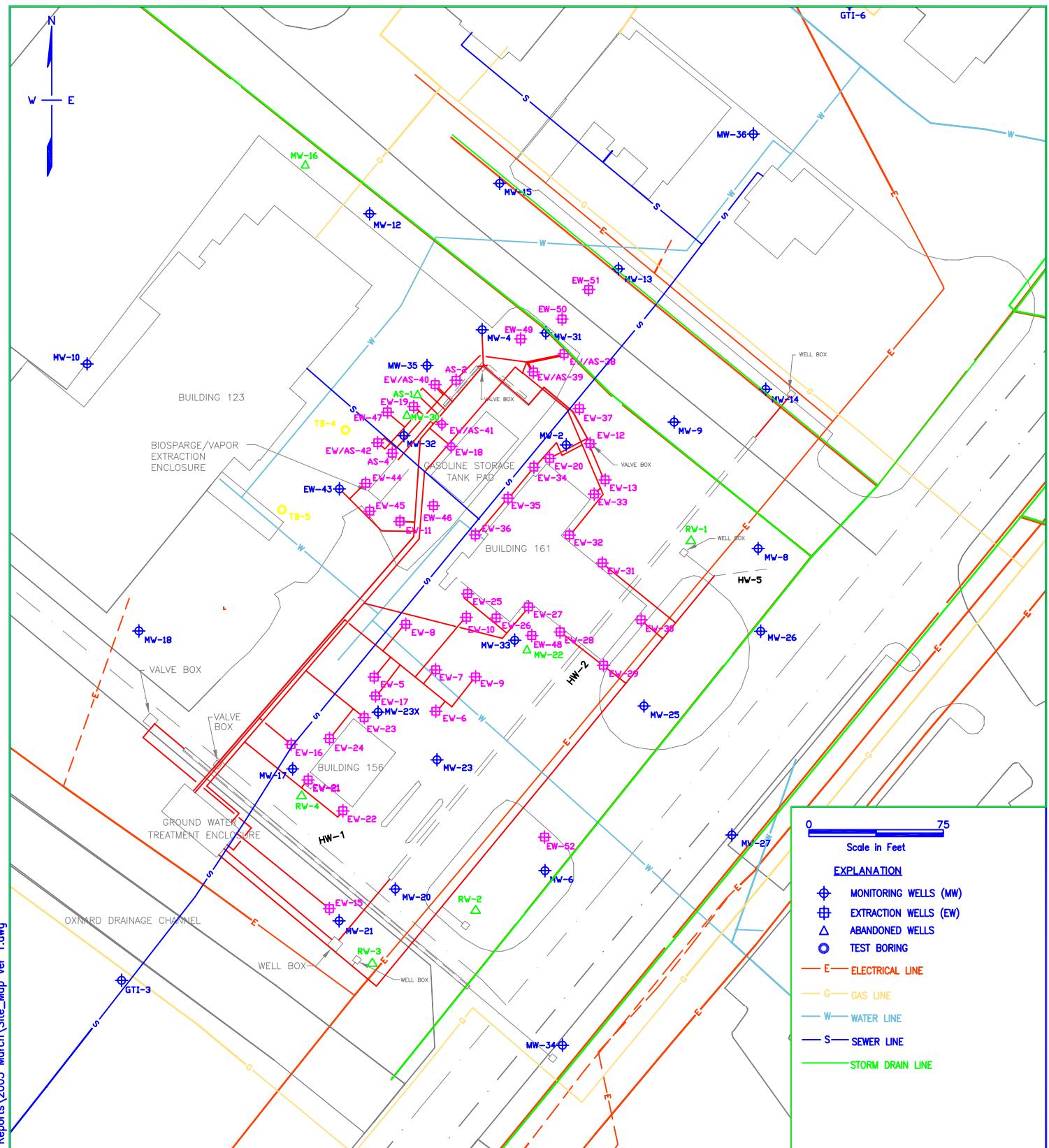
FIGURE 1
SITE VICINITY MAP
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA



0 1/2 1

Scale in Miles

URS



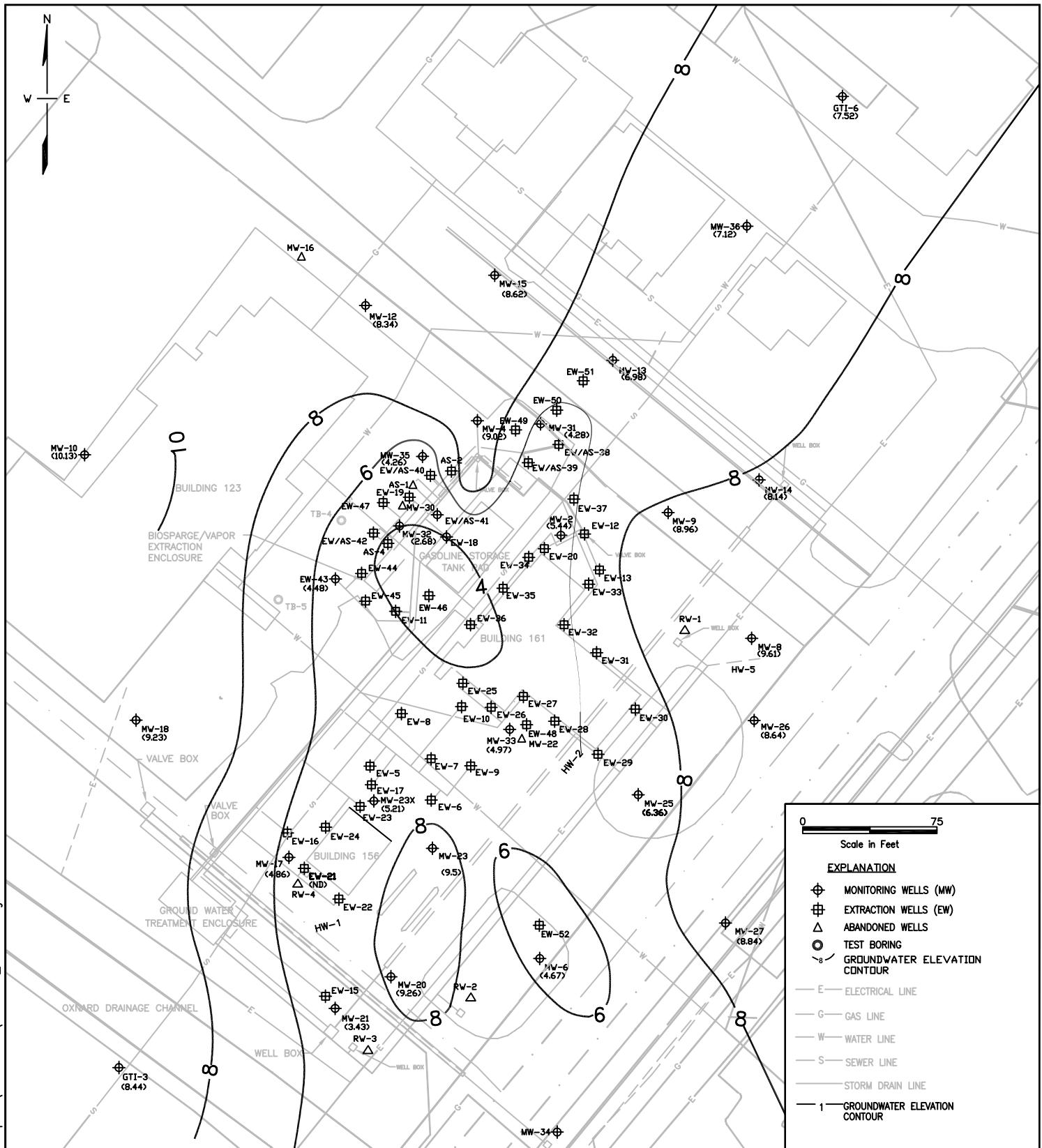
URS Corporation

2020 E. First Street, Suite 400
Santa Ana, CA 92705-5605
Phone (714) 835-6886 Fax (714) 973-9086

SITE MAP FEBRUARY 2005

NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

FIGURE
2



URS Corporation

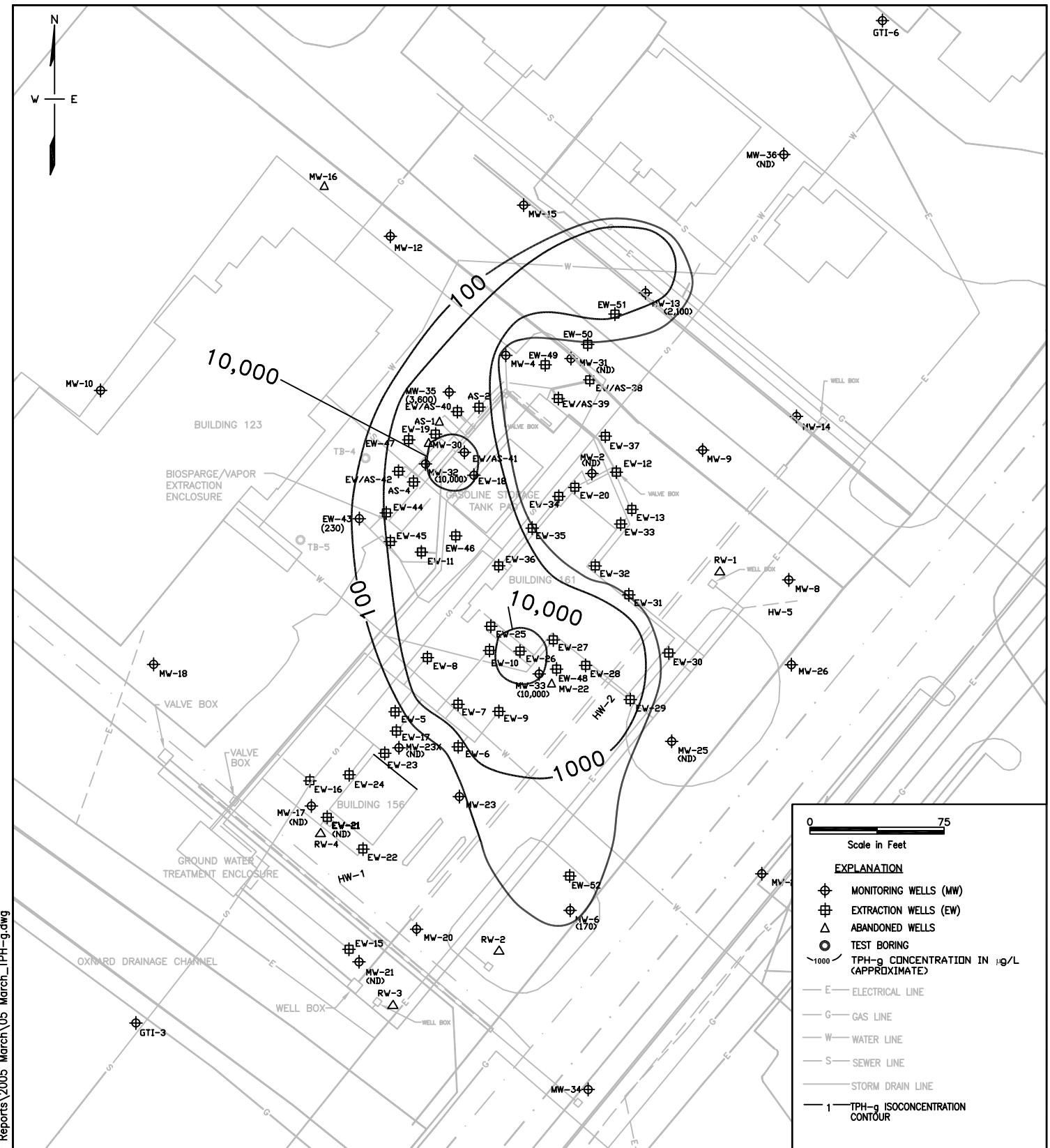
2020 E. First Street, Suite 400
Santa Ana, CA 92705-5605
Phone (714) 835-6886 Fax (714) 973-9086

GROUNDWATER ELEVATION CONTOUR FEBRUARY 2005

NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

FIGURE

3



URS Corporation

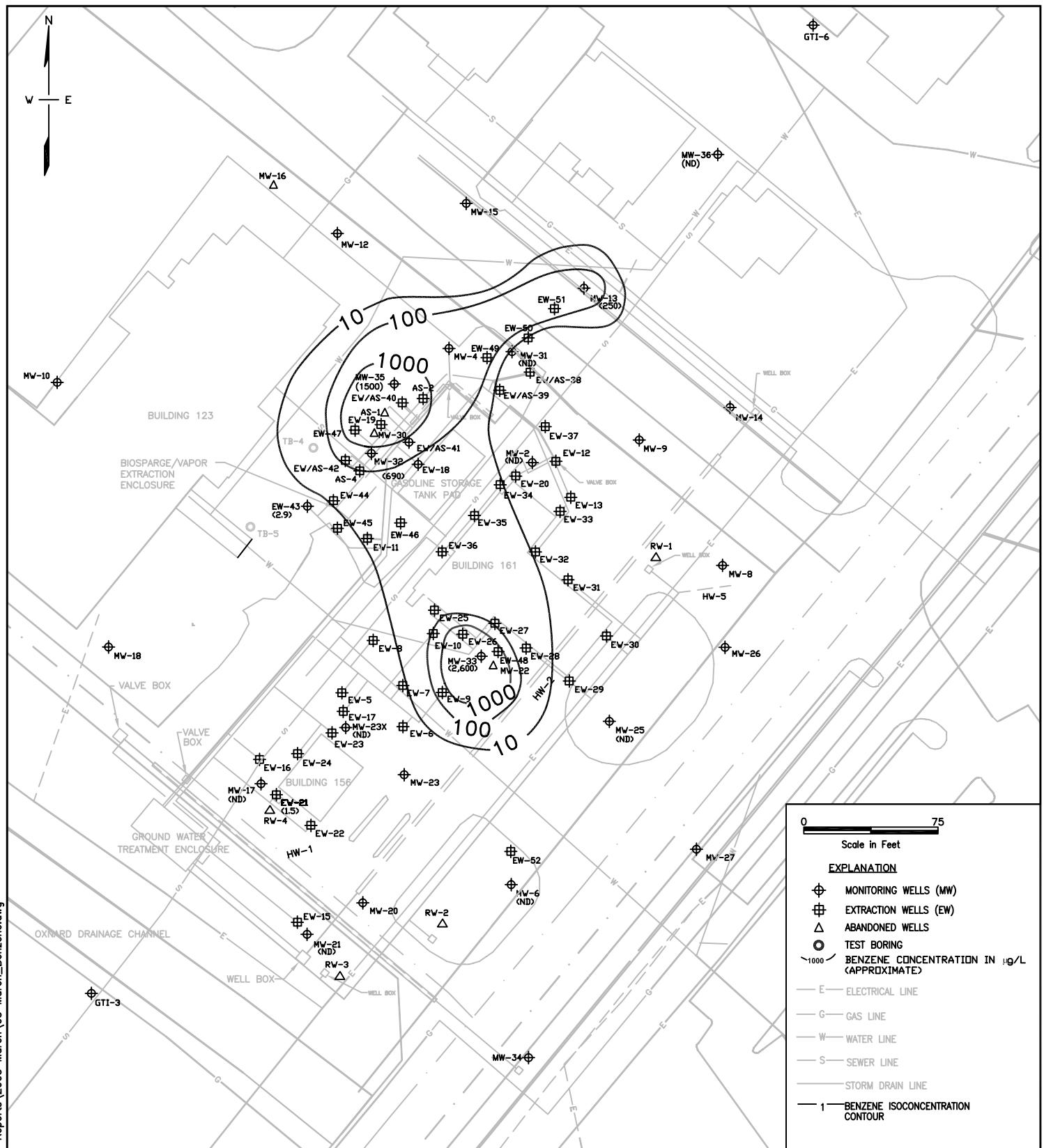
2020 E. First Street, Suite 400
Santa Ana, CA 92705-5605
Phone (714) 835-6886 Fax (714) 973-9086

TPH-g ISO-CONCENTRATION FEBRUARY 2005

NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

FIGURE

4



URS Corporation

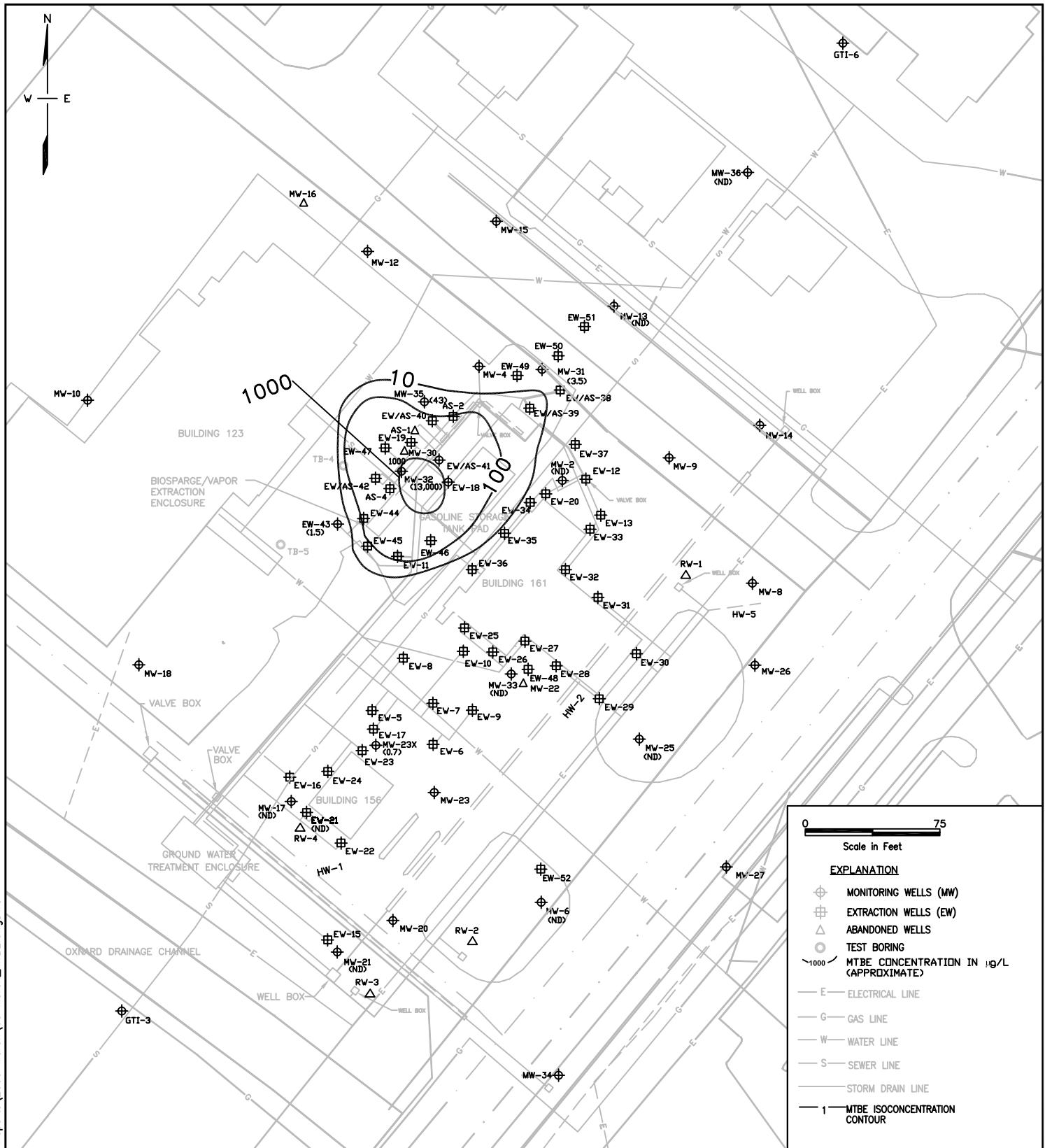
2020 E.First Street, Suite 400
Santa Ana, CA 92705-5605
Phone (714) 835-6886 Fax (714) 973-9086

BENZENE ISO-CONCENTRATION FEBRUARY 2005

NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

FIGURE

5



URS Corporation
2020 E. First Street, Suite 400
Santa Ana, CA 92705-5605
Phone (714) 835-6886 Fax (714) 973-9086

MTBE ISO-CONCENTRATION FEBRUARY 2005

NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

FIGURE
6

FIGURE 7
**TOTAL AMOUNT OF HYDROCARBONS
REMOVED FROM THE VAPOR PHASE (CATALYTIC OXIDIZER)**
**NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA**

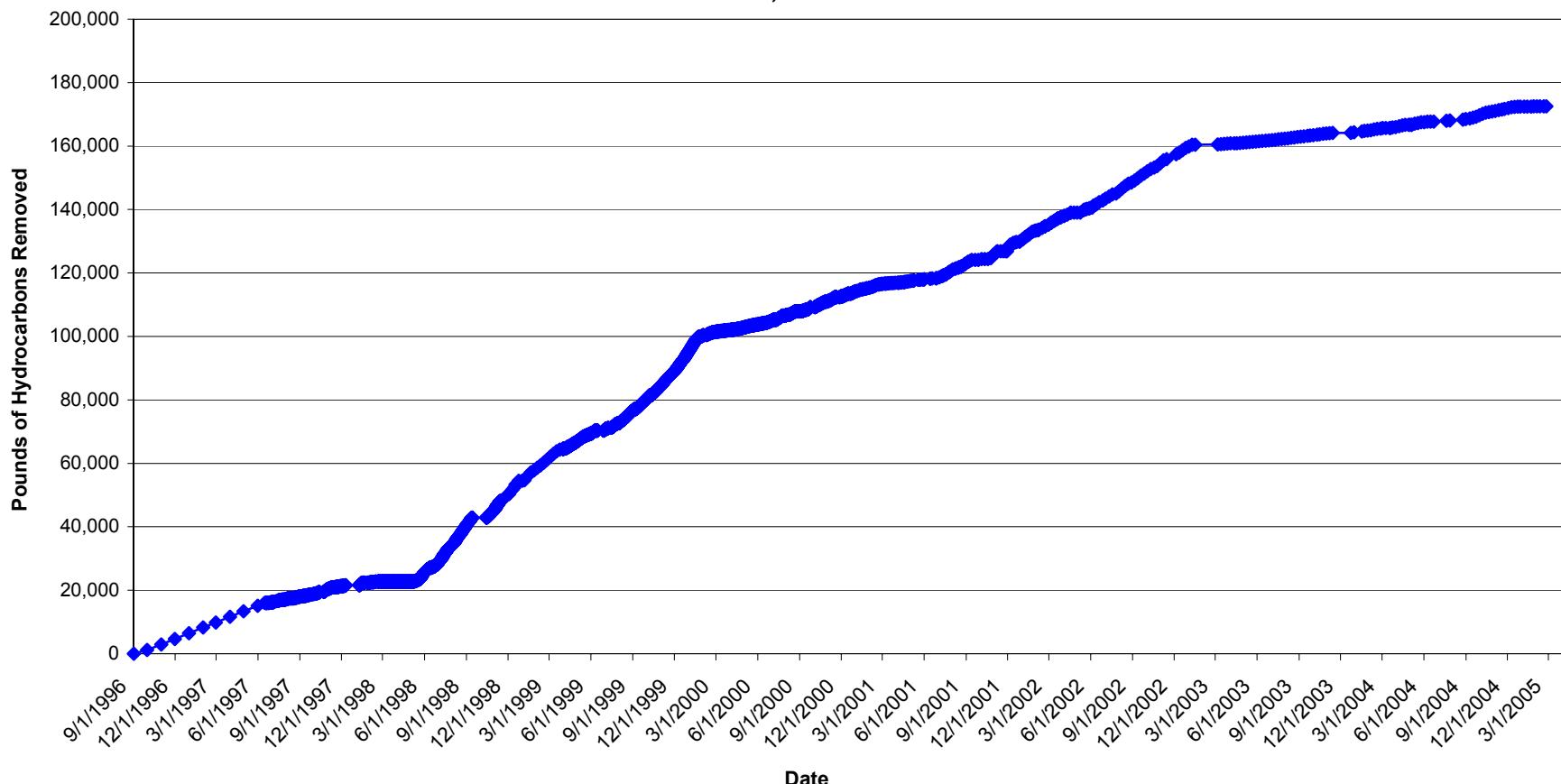


FIGURE 8
GALLONS OF WATER REMOVED
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

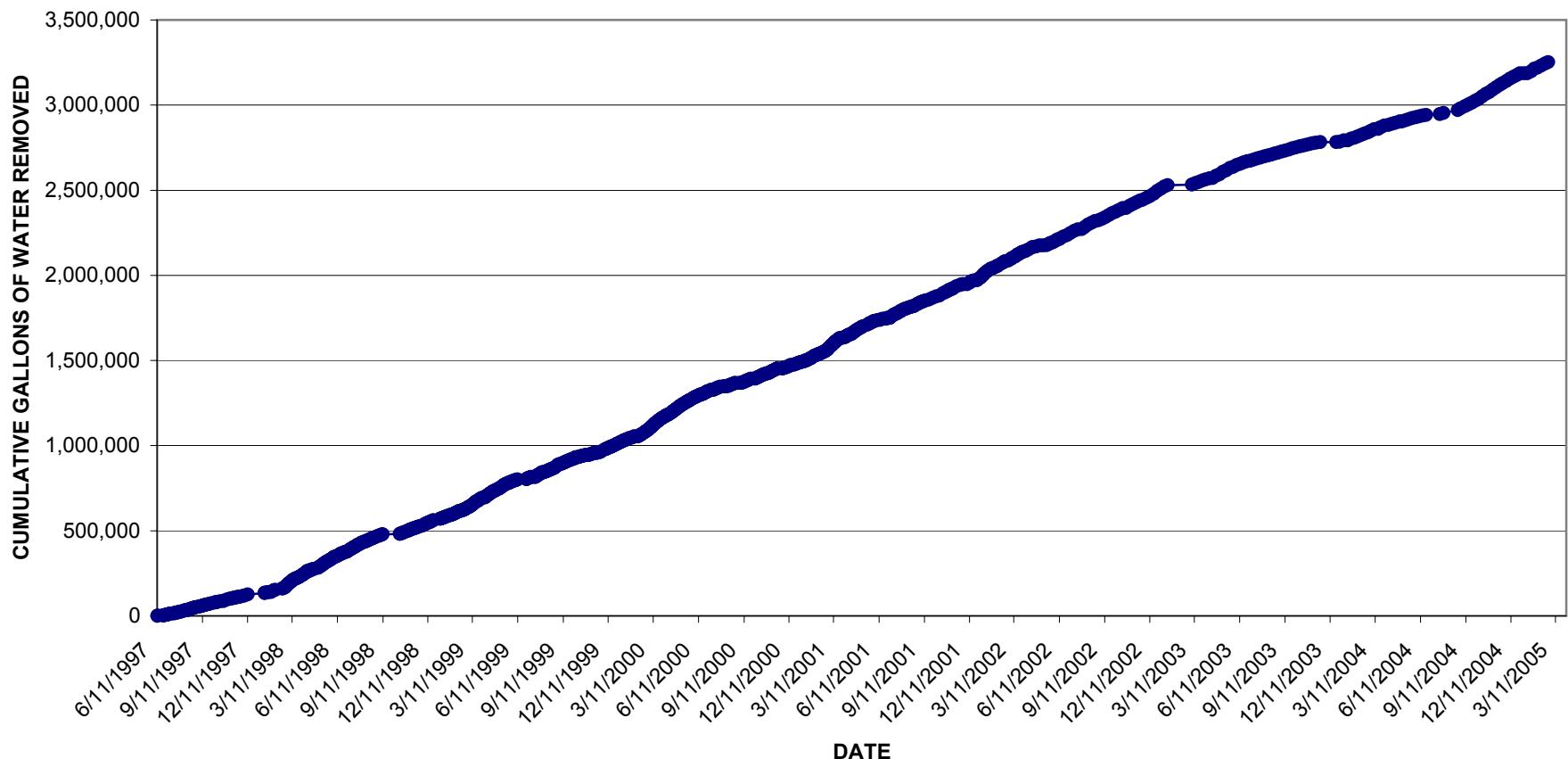
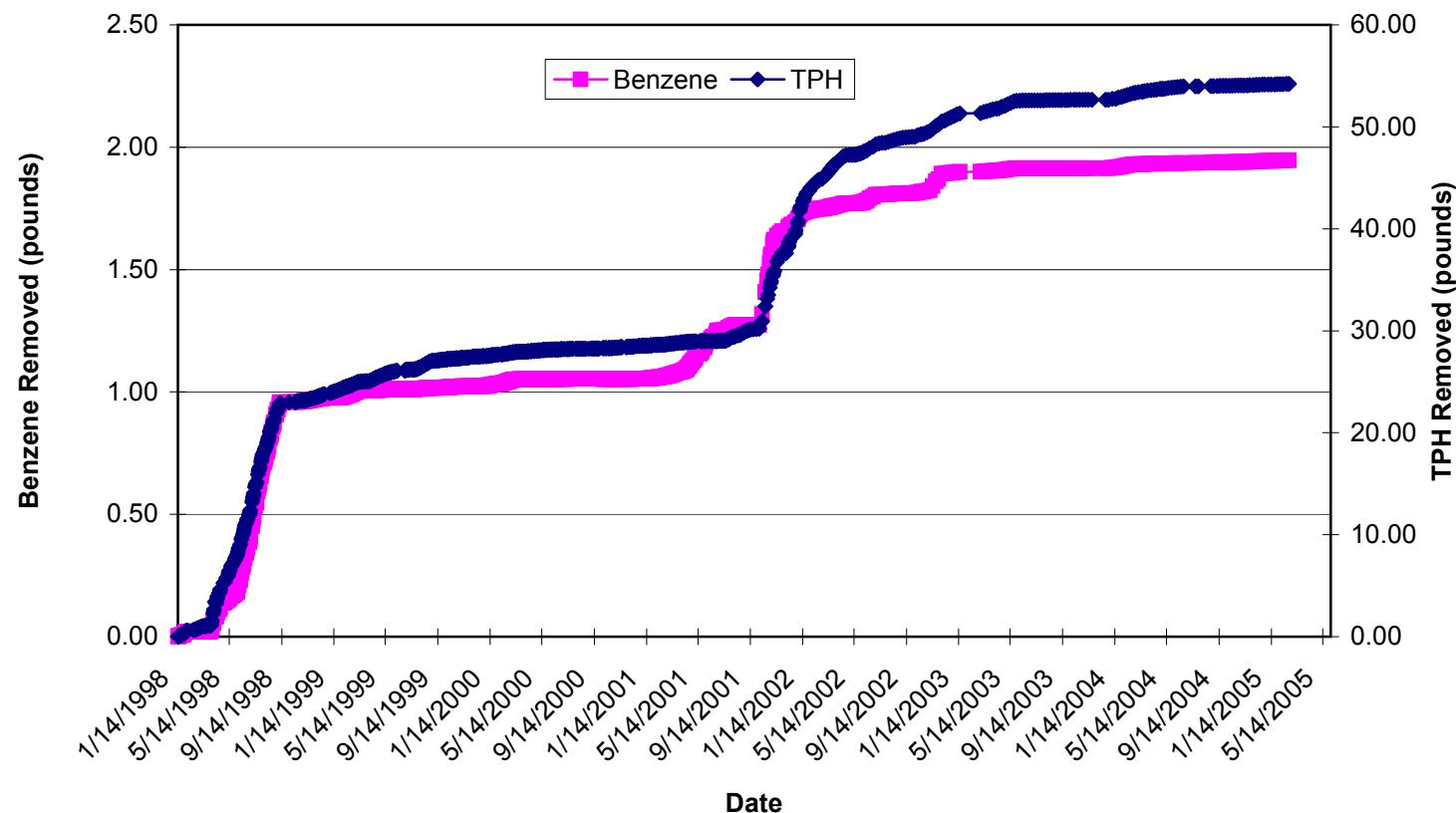
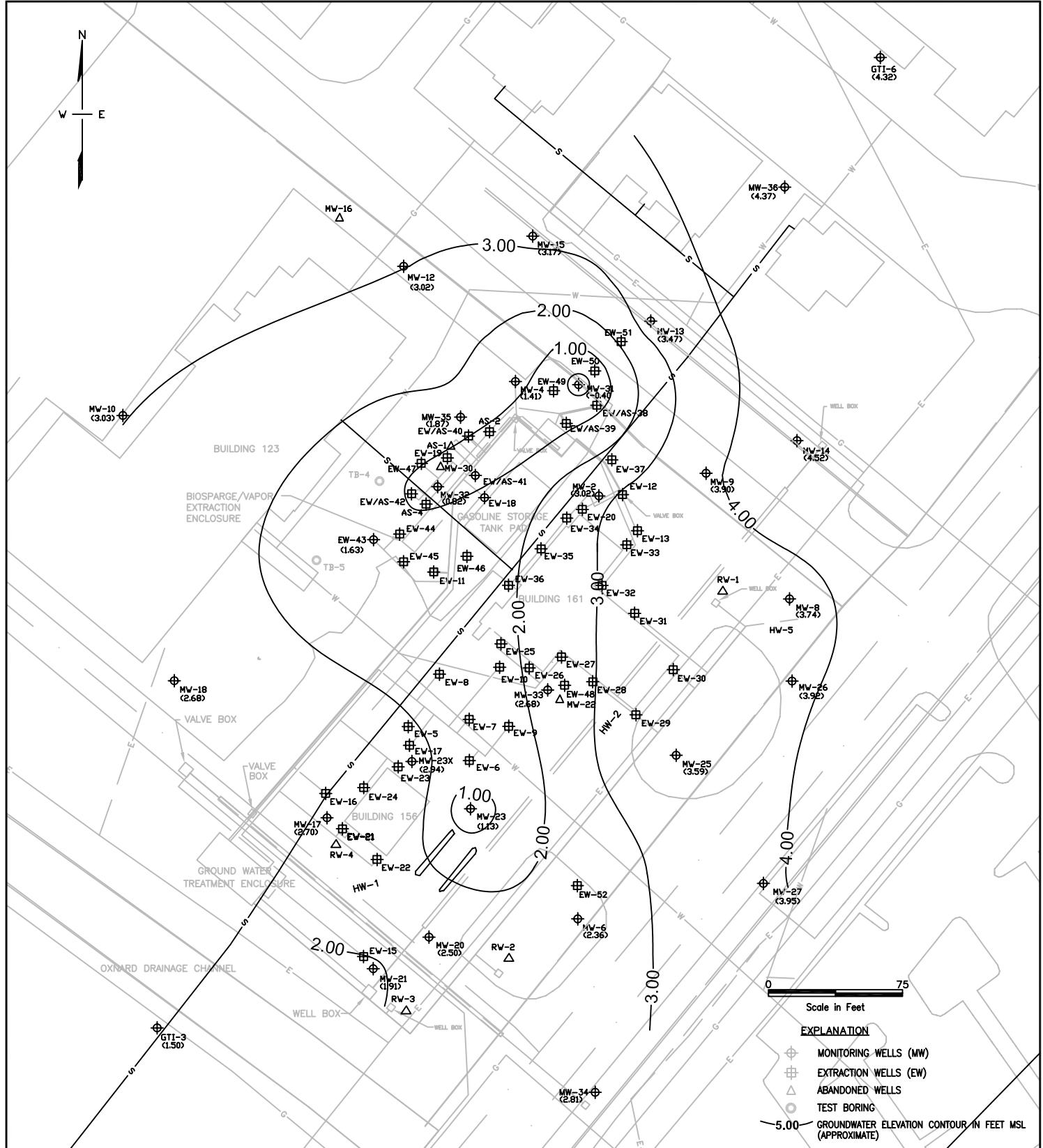


FIGURE 9

**TOTAL AMOUNT OF BENZENE AND TPH REMOVED
IN THE LIQUID PHASE (LIQUID RING PUMP)**

**NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA**





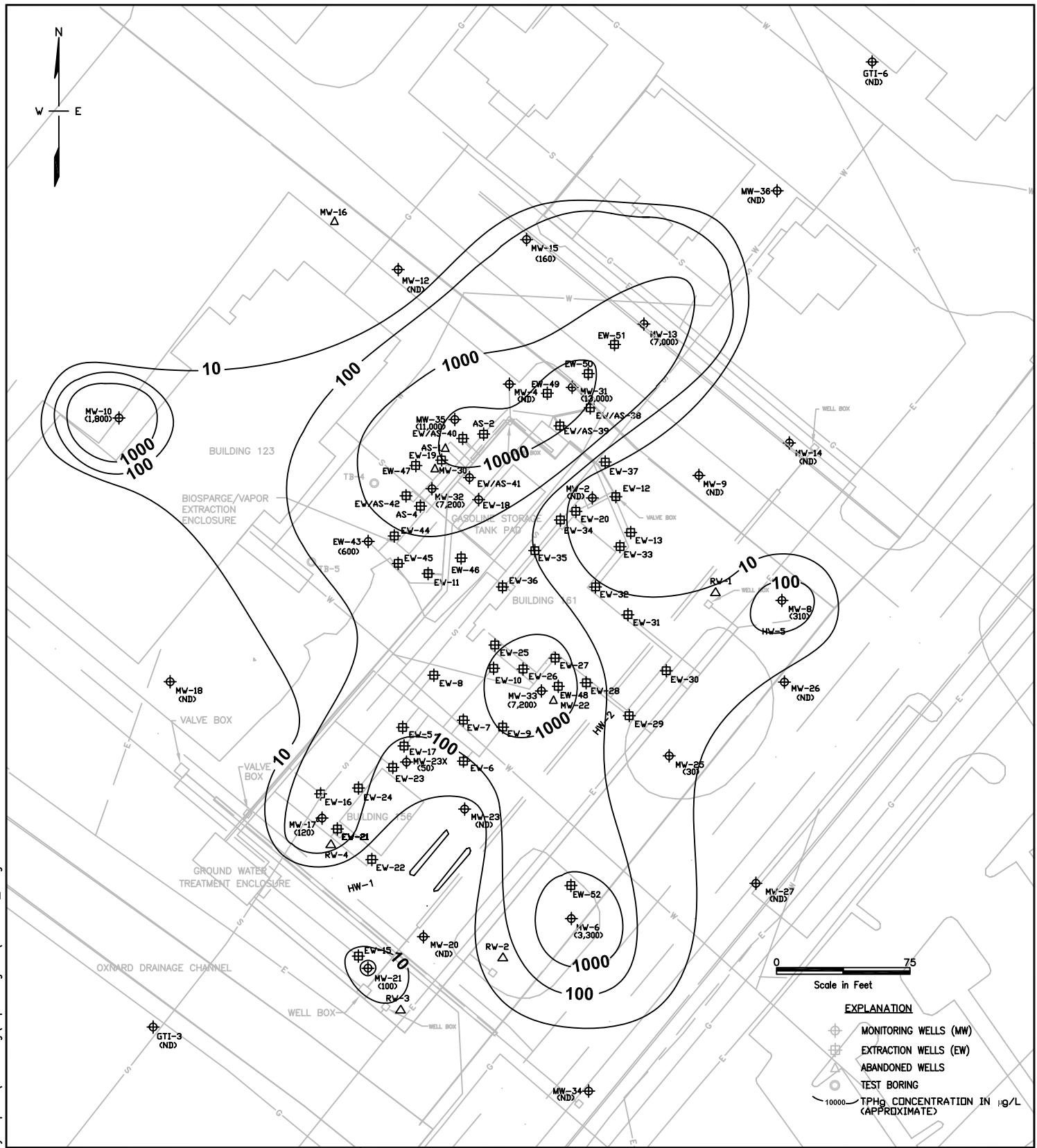
URS Corporation

2020 E. First Street, Suite 400
Santa Ana, CA 92705-5605
Phone (714) 835-6886 Fax (714) 973-9086

GROUNDWATER ELEVATION CONTOUR AUGUST 2004

NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

FIGURE
A1



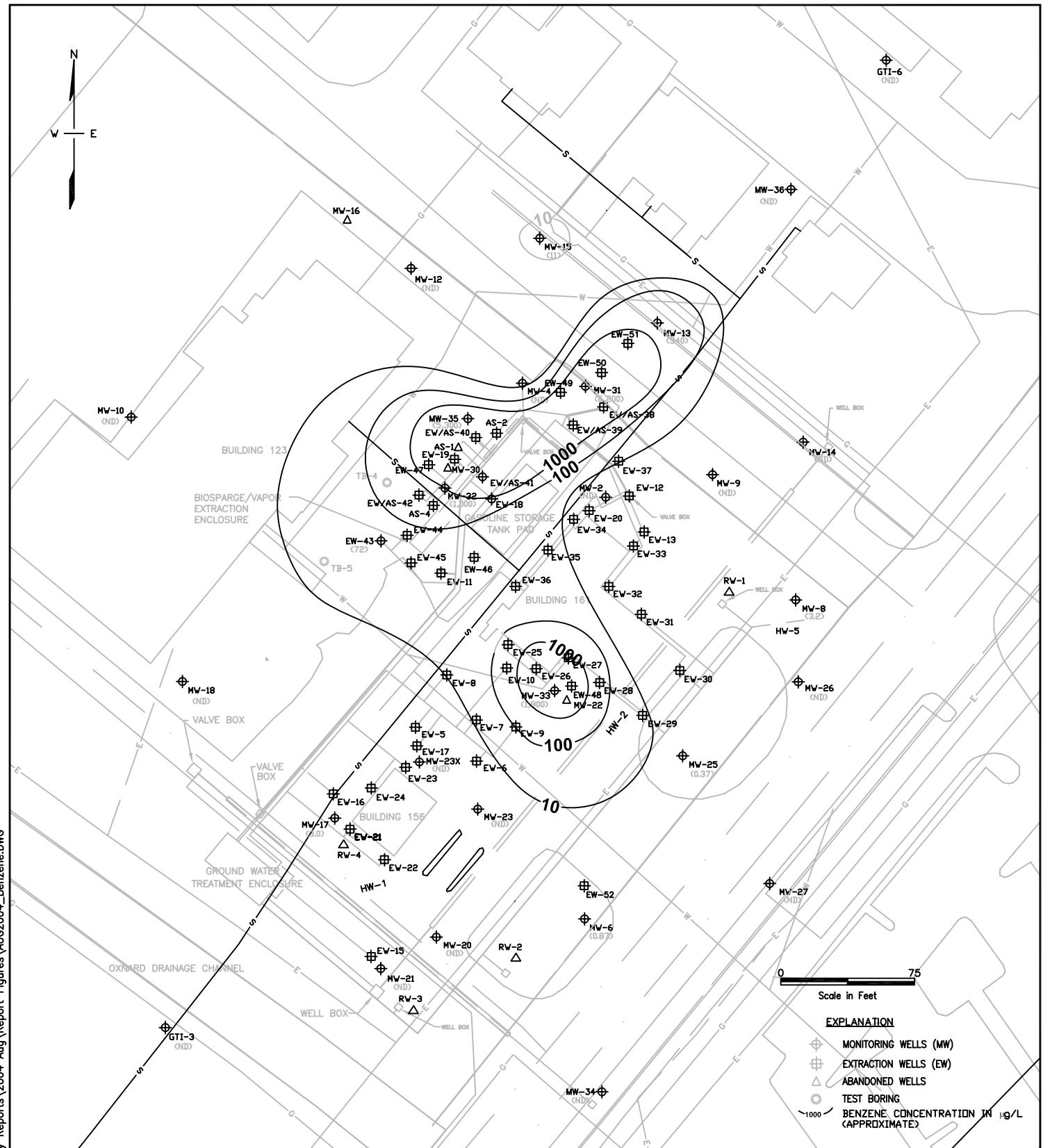
URS Corporation

2020 E.First Street, Suite 400
Santa Ana, CA 92705-5605
Phone (714) 835-6886 Fax (714) 973-9086

TPH-g ISO-CONCENTRATION AUGUST 2004

NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

FIGURE
A2



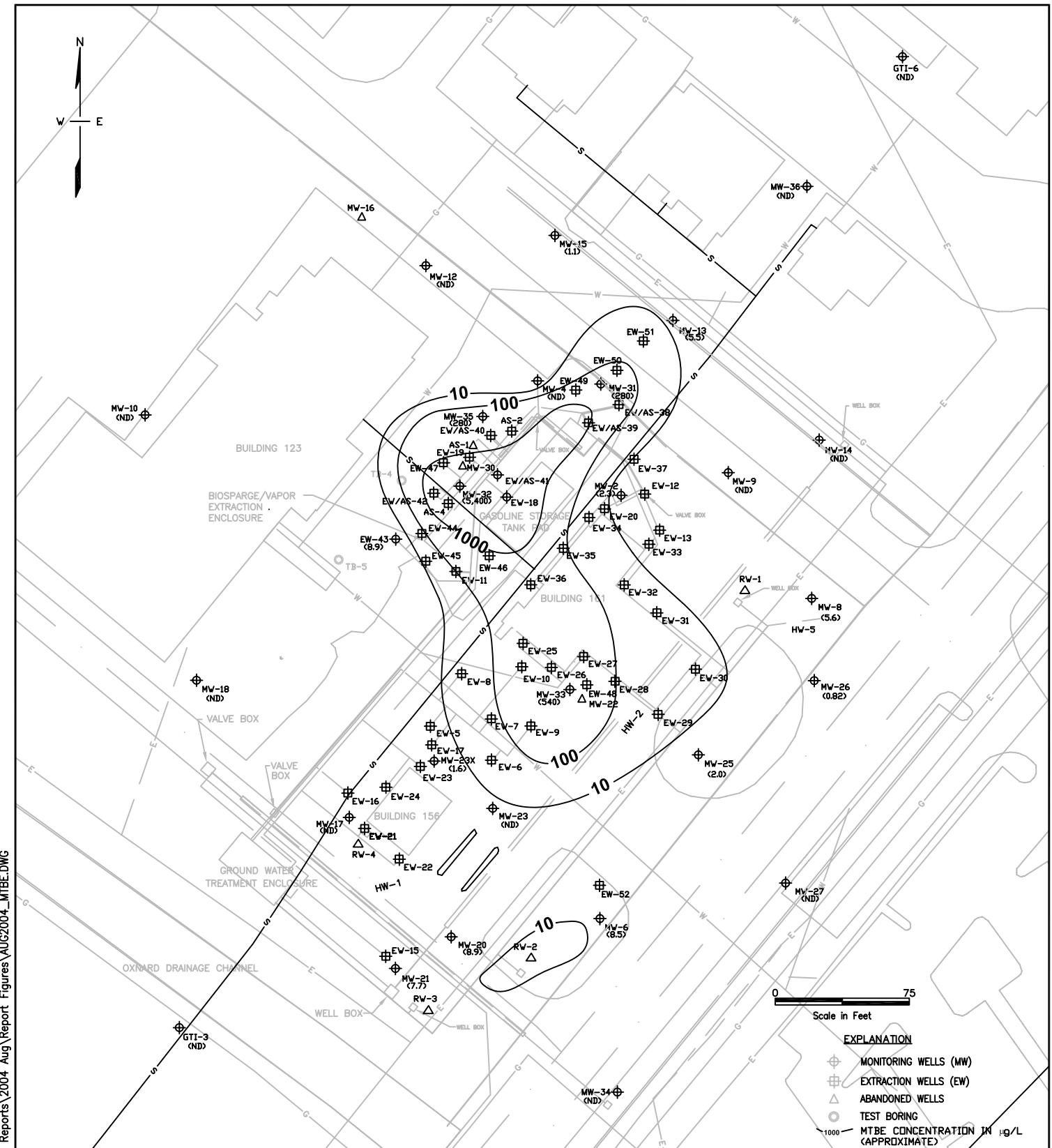
URS Corporation

2020 E.First Street, Suite 400
Santa Ana, CA 92705-5605
Phone (714) 835-6886 Fax (714) 973-9086

BENZENE ISO-CONCENTRATION AUGUST 2004

NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

FIGURE
A3



URS Corporation

2020 E.First Street, Suite 400
Santa Ana, CA 92705-5605
Phone (714) 835-6886 Fax (714) 973-9086

MTBE ISO-CONCENTRATION AUGUST 2004

NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

FIGURE
A4



LABORATORY ANALYSIS RESULTS

Page 1 of 4

Client: Naval Base Ventura County
Project No.: NA
Project Name: Building 161 Remediation
Sample Matrix: Water
Method: EPA 8260B (BTEX, MTBE)

AA Project No.: A49431
Date Received: 02/10/05
Date Reported: 02/24/05
Units: ug/L

Date Sampled:	02/10/05	02/10/05	02/10/05	02/10/05		
Date Analyzed:	02/18/05	02/18/05	02/18/05	02/18/05		
AA ID No.:	182299	182300	182301	182302		
Client ID No.:	MW-2	MW-6	MW-13	MW-17		
Dilution Factor:	1.0	1.0	4.0	1.0	MDL	MRL

Compounds:

Benzene	<0.5	<0.5	250	<0.5	0.1000	0.5
Ethylbenzene	<0.5	<0.5	110	<0.5	0.2000	0.5
Methyl tert-Butyl Ether	<2	<2	<8	<2	0.5000	2
Toluene	<0.5	<0.5	10	<0.5	0.2000	0.5
m,p-Xylenes	<1	<1	11	<1	0.3000	1
o-Xylene	<0.5	<0.5	<2	<0.5	0.2000	0.5

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Page 2 of 4

Client: Naval Base Ventura County
Project No.: NA
Project Name: Building 161 Remediation
Sample Matrix: Water
Method: EPA 8260B (BTEX, MTBE)

AA Project No.: A49431
Date Received: 02/10/05
Date Reported: 02/24/05
Units: ug/L

Date Sampled:	02/10/05	02/10/05	02/10/05	02/10/05	MDL	MRL
Date Analyzed:	02/18/05	02/18/05	02/18/05	02/18/05		
AA ID No.:	182303	182304	182305	182306		
Client ID No.:	MW-21	MW-25	MW-31	MW-32		
Dilution Factor:	1.0	1.0	1.0	100.0		
Compounds:						
Benzene	<0.5	<0.5	<0.5	690	0.1000	0.5
Ethylbenzene	<0.5	<0.5	<0.5	<50	0.2000	0.5
Methyl tert-Butyl Ether	<2	<2	3.5	13000	0.5000	2
Toluene	<0.5	<0.5	<0.5	<50	0.2000	0.5
m,p-Xylenes	<1	<1	<1	<100	0.3000	1
o-Xylene	<0.5	<0.5	<0.5	<50	0.2000	0.5

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Page 3 of 4

Client: Naval Base Ventura County
Project No.: NA
Project Name: Building 161 Remediation
Sample Matrix: Water
Method: EPA 8260B (BTEX, MTBE)

AA Project No.: A49431
Date Received: 02/10/05
Date Reported: 02/24/05
Units: ug/L

Date Sampled:	02/10/05	02/10/05	02/10/05	02/10/05		
Date Analyzed:	02/18/05	02/18/05	02/18/05	02/18/05		
AA ID No.:	182307	182308	182309	182310		
Client ID No.:	MW-33	MW-35	MW-36	MW-23X		
Dilution Factor:	100.0	10.0	1.0	1.0	MDL	MRL

Compounds:

Benzene	2600	1500	<0.5	<0.5	10.0000	0.5
Ethylbenzene	280	120	<0.5	<0.5	20.0000	0.5
Methyl tert-Butyl Ether	<200	43	<2	0.70J	50.0000	2
Toluene	500	<5	<0.5	<0.5	20.0000	0.5
m,p-Xylenes	800	32	<1	<1	30.0000	1
o-Xylene	570	<5	<0.5	<0.5	20.0000	0.5

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Page 4 of 4

Client: Naval Base Ventura County
Project No.: NA
Project Name: Building 161 Remediation
Sample Matrix: Water
Method: EPA 8260B (BTEX, MTBE)

AA Project No.: A49431
Date Received: 02/10/05
Date Reported: 02/24/05
Units: ug/L

Date Sampled: 02/10/05 **02/10/05**
Date Analyzed: 02/18/05 **02/18/05**
AA ID No.: 182311 **182313**
Client ID No.: EW-43 **QCTB**
Dilution Factor: 1.0 **1.0**

		MDL	MRL
Benzene	2.9	0.1000	0.5
Ethylbenzene	<0.5	0.2000	0.5
Methyl tert-Butyl Ether	1.5J	0.5000	2
Toluene	<0.5	0.2000	0.5
m,p-Xylenes	<1	0.3000	1
o-Xylene	<0.5	0.2000	0.5

MRL: Method Reporting Limit

J: Estimated Value

MDL: Method Detection Limit

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Page 1 of 1

Client: Naval Base Ventura County
Project No.: NA
Project Name: Building 161 Remediation
Sample Matrix: Water
Method: Gasoline Range Org. by GC/MS

AA Project No.: A49431
Date Received: 02/10/05
Date Reported: 02/24/05
Units: mg/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	DF	Results	MDL	MRL
182299	MW-2	02/10/05	02/18/05	1.0	<0.1	0.011	0.1
182300	MW-6	02/10/05	02/18/05	1.0	0.17	0.011	0.1
182301	MW-13	02/10/05	02/18/05	4.0	2.1	0.044	0.1
182302	MW-17	02/10/05	02/18/05	1.0	0.081J	0.011	0.1
182303	MW-21	02/10/05	02/18/05	1.0	0.053J	0.011	0.1
182304	MW-25	02/10/05	02/18/05	1.0	0.025J	0.011	0.1
182305	MW-31	02/10/05	02/18/05	1.0	0.033J	0.011	0.1
182306	MW-32	02/10/05	02/18/05	1.0	10	0.011	0.1
182307	MW-33	02/10/05	02/18/05	1.0	10	0.011	0.1
182308	MW-35	02/10/05	02/18/05	1.0	3.6	0.011	0.1
182309	MW-36	02/10/05	02/18/05	1.0	0.089J	0.011	0.1
182310	MW-23X	02/10/05	02/18/05	1.0	0.036J	0.011	0.1
182311	EW-43	02/10/05	02/18/05	1.0	0.23	0.011	0.1
182313	QCTB	02/10/05	02/18/05	1.0	0.032J	0.011	0.1

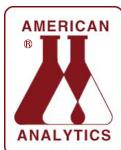
MRL: Method Reporting Limit

J: Estimated Value

MDL: Method Detection Limit

DF: Dilution Factor

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Building 161 Remediation
Method: EPA 8260B (BTEX, MTBE)
Sample ID: Reagent Blank

Project No.: NA
AA Project No.: A49431
Date Analyzed: 02/18/05
Date Reported: 02/24/05

Compounds	Results	
	ug/L	MRL
Benzene	<0.5	0.5
Ethylbenzene	<0.5	0.5
Methyl tert-Butyl Ether	<2	2
Toluene	<0.5	0.5
m,p-Xylenes	<1	1
o-Xylene	<0.5	0.5

MRL: Method Reporting Limit

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Building 161 Remediation
Method: Gasoline Range Org. by GC/MS
Sample ID: Reagent Blank

Project No.: NA
AA Project No.: A49431
Date Analyzed: 02/18/05
Date Reported: 02/24/05

Compounds	Results	MRL
	mg/L	
Gasoline Range Organics	<0.1	0.1

MRL: Method Reporting Limit

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Building 161 Remediation
Method: EPA 8260B (BTEX, MTBE)
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No.: NA
AA Project No. A49431
Date Analyzed: 02/18/05
Date Reported: 02/24/05

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Benzene	21.8	109	65 - 135
Ethylbenzene	22.2	111	77 - 123
Toluene	21.1	106	66 - 134
o-Xylene	22.2	111	73 - 127

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Building 161 Remediation
Method: Gasoline Range Org. by GC/MS
Sample ID: Laboratory Control Standard
Concentration: 0.5 mg/L

Project No.: NA
AA Project No. A49431
Date Analyzed: 02/18/05
Date Reported: 02/24/05

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Gasoline Range Organics	0.537	107.0	48.0 - 152

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Building 161 Remediation
Method: EPA 8260B (BTEX, MTBE)
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No: 182299
Project No.: NA
AA Project No. A49431
Date Analyzed: 02/18/05
Date Reported: 02/24/05

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept. Rec. Range (%)
Benzene	19.2	96	19.1	96	0	50 - 150
Ethylbenzene	22.6	113	20.0	100	12	50 - 150
Methyl tert-Butyl Ether	21.4	107	18.6	93	14	50 - 150
Toluene	24.3	122	19.5	98	22	50 - 150
o-Xylene	22.6	113	20.4	102	10	50 - 150

Eydie Schwartz
Project Manager

American Analytical
9765 Eton Ave
Chatsworth, CA 91311
818-998-5547 phone
818-998-7258 fax



Department of the Navy

Client NBVC Environ.	Department of the Navy Div. 311 Main Rd., Ste. 1, Code N45V	Project Point Mugu, CA 93042-5013	CHAIN of CUSTODY	Page 1 of 2 Building 161 Remediation Semi Annual
				Method of Shipment

CHAIN OF CUSTODY

CHAIN of CUSTODY Page 1 of 2
Building 161 Remediation Method of Shipment
Semi Annual

American Analytical		Department of the Navy		CHAIN of CUSTODY		Page <u>1</u> of <u>2</u>																																																																																																																																																																																																																																																																																															
9765 Eton Ave Chatsworth, CA 91311 818-998-5547 phone 818-998-7258 fax		NBVC Environ. Div. 311 Main Rd., Site 1, Code N45V Point Mugu, CA 93042-5033		Project Building 161 Remediation Semi Annual		Method of Shipment																																																																																																																																																																																																																																																																																															
Project Manager	Hassan Jafar	Contract No.	NG2474-97-A-1008	Telephone No.	805-989-3210	Fax No.	805-989-1011																																																																																																																																																																																																																																																																																														
<p style="text-align: center;"><u>A49431</u></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width: 10%;">Lab Sample No.</td> <td rowspan="2" style="width: 10%;">Sample I.D.</td> <td rowspan="2" style="width: 10%;">No. of Containers</td> <td rowspan="2" style="width: 10%;">Soil</td> <td rowspan="2" style="width: 10%;">Water</td> <td rowspan="2" style="width: 10%;">Air</td> <td rowspan="2" style="width: 10%;">Other</td> <td rowspan="2" style="width: 10%;">Yes</td> <td rowspan="2" style="width: 10%;">No</td> <td rowspan="2" style="width: 10%;">Sampling Date</td> <td rowspan="2" style="width: 10%;">Sampling Time</td> <td rowspan="2" style="width: 10%;">Turn Around Time (business days)</td> <td rowspan="2" style="width: 10%;">Special Detection Limit/Reporting Test one sample only from each sample set. MDL / PQL / J</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td>MW-2</td> <td>1822399</td> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2/10/05</td> <td>9:25</td> <td>X</td> <td>TPH-G / BTEX / MTBE EPA 8260B</td> </tr> <tr> <td>MW-6</td> <td>1822300</td> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2/10/05</td> <td>9:00</td> <td>X</td> <td></td> </tr> <tr> <td>MW-13</td> <td>1822301</td> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2/10/05</td> <td>9:40</td> <td>X</td> <td></td> </tr> <tr> <td>MW-17</td> <td>1822302</td> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2/10/05</td> <td>9:15</td> <td>X</td> <td></td> </tr> <tr> <td>MW-21</td> <td>1822303</td> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2/10/05</td> <td>9:10</td> <td>X</td> <td></td> </tr> <tr> <td>MW-25</td> <td>1822304</td> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2/10/05</td> <td>9:30</td> <td>X</td> <td></td> </tr> <tr> <td>MW-31</td> <td>1822305</td> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2/10/05</td> <td>9:55</td> <td>X</td> <td></td> </tr> <tr> <td>MW-32</td> <td>1822306</td> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2/10/05</td> <td>10:05</td> <td>X</td> <td></td> </tr> <tr> <td>MW-33</td> <td>1822307</td> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2/10/05</td> <td>9:25</td> <td>X</td> <td></td> </tr> <tr> <td>MW-35</td> <td>1822308</td> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2/10/05</td> <td>10:00</td> <td>X</td> <td></td> </tr> <tr> <td>MW-36</td> <td>1822309</td> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2/10/05</td> <td>9:45</td> <td>X</td> <td></td> </tr> <tr> <td>MW-23X</td> <td>1822310</td> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2/10/05</td> <td>8:55</td> <td>X</td> <td></td> </tr> <tr> <td>EW-43.</td> <td>1822311</td> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2/10/05</td> <td>10:10</td> <td>X</td> <td></td> </tr> <tr> <td>Sample Received Intact:</td> <td>Yes</td> <td>No</td> <td colspan="8"></td> <td>Temperature received:</td> <td>Ice</td> <td>No Ice</td> </tr> <tr> <td>Received by sample (Sign & Print Name)</td> <td colspan="2" style="text-align: center;"><u>E.L. Anderson</u></td> <td>Date</td> <td>Time</td> <td colspan="8"></td> <td>Received by (Sign & Print Name)</td> <td colspan="2" style="text-align: center;"><u>2/10/05</u></td> </tr> <tr> <td>Relinquished by</td> <td colspan="2" style="text-align: center;"><u>AMERICAN ANALYTICS</u></td> <td>Date</td> <td>Time</td> <td colspan="8"></td> <td>Received by</td> <td colspan="2" style="text-align: center;"><u>2/10/05</u></td> </tr> <tr> <td>Relinquished by</td> <td colspan="2" style="text-align: center;"><u>AMERICAN ANALYTICS</u></td> <td>Date</td> <td>Time</td> <td colspan="8"></td> <td>Received by</td> <td colspan="2" style="text-align: center;"><u>2/10/05</u></td> </tr> <tr> <td>Relinquished by</td> <td colspan="2" style="text-align: center;"><u>AMERICAN ANALYTICS</u></td> <td>Date</td> <td>Time</td> <td colspan="8"></td> <td>Received by laboratory</td> <td>Date</td> <td>Time</td> </tr> <tr> <td>Relinquished by</td> <td colspan="2" style="text-align: center;"><u>AMERICAN ANALYTICS</u></td> <td>Date</td> <td>Time</td> <td colspan="8"></td> <td>Received by laboratory</td> <td>Date</td> <td>Time</td> </tr> </table>								Lab Sample No.	Sample I.D.	No. of Containers	Soil	Water	Air	Other	Yes	No	Sampling Date	Sampling Time	Turn Around Time (business days)	Special Detection Limit/Reporting Test one sample only from each sample set. MDL / PQL / J											MW-2	1822399	3	X	X	X	X	X	X	2/10/05	9:25	X	TPH-G / BTEX / MTBE EPA 8260B	MW-6	1822300	3	X	X	X	X	X	X	2/10/05	9:00	X		MW-13	1822301	3	X	X	X	X	X	X	2/10/05	9:40	X		MW-17	1822302	3	X	X	X	X	X	X	2/10/05	9:15	X		MW-21	1822303	3	X	X	X	X	X	X	2/10/05	9:10	X		MW-25	1822304	3	X	X	X	X	X	X	2/10/05	9:30	X		MW-31	1822305	3	X	X	X	X	X	X	2/10/05	9:55	X		MW-32	1822306	3	X	X	X	X	X	X	2/10/05	10:05	X		MW-33	1822307	3	X	X	X	X	X	X	2/10/05	9:25	X		MW-35	1822308	3	X	X	X	X	X	X	2/10/05	10:00	X		MW-36	1822309	3	X	X	X	X	X	X	2/10/05	9:45	X		MW-23X	1822310	3	X	X	X	X	X	X	2/10/05	8:55	X		EW-43.	1822311	3	X	X	X	X	X	X	2/10/05	10:10	X		Sample Received Intact:	Yes	No									Temperature received:	Ice	No Ice	Received by sample (Sign & Print Name)	<u>E.L. Anderson</u>		Date	Time									Received by (Sign & Print Name)	<u>2/10/05</u>		Relinquished by	<u>AMERICAN ANALYTICS</u>		Date	Time									Received by	<u>2/10/05</u>		Relinquished by	<u>AMERICAN ANALYTICS</u>		Date	Time									Received by	<u>2/10/05</u>		Relinquished by	<u>AMERICAN ANALYTICS</u>		Date	Time									Received by laboratory	Date	Time	Relinquished by	<u>AMERICAN ANALYTICS</u>		Date	Time									Received by laboratory	Date	Time
Lab Sample No.	Sample I.D.	No. of Containers	Soil	Water	Air	Other	Yes														No	Sampling Date	Sampling Time	Turn Around Time (business days)	Special Detection Limit/Reporting Test one sample only from each sample set. MDL / PQL / J																																																																																																																																																																																																																																																																												
MW-2	1822399	3	X	X	X	X	X	X	2/10/05	9:25	X	TPH-G / BTEX / MTBE EPA 8260B																																																																																																																																																																																																																																																																																									
MW-6	1822300	3	X	X	X	X	X	X	2/10/05	9:00	X																																																																																																																																																																																																																																																																																										
MW-13	1822301	3	X	X	X	X	X	X	2/10/05	9:40	X																																																																																																																																																																																																																																																																																										
MW-17	1822302	3	X	X	X	X	X	X	2/10/05	9:15	X																																																																																																																																																																																																																																																																																										
MW-21	1822303	3	X	X	X	X	X	X	2/10/05	9:10	X																																																																																																																																																																																																																																																																																										
MW-25	1822304	3	X	X	X	X	X	X	2/10/05	9:30	X																																																																																																																																																																																																																																																																																										
MW-31	1822305	3	X	X	X	X	X	X	2/10/05	9:55	X																																																																																																																																																																																																																																																																																										
MW-32	1822306	3	X	X	X	X	X	X	2/10/05	10:05	X																																																																																																																																																																																																																																																																																										
MW-33	1822307	3	X	X	X	X	X	X	2/10/05	9:25	X																																																																																																																																																																																																																																																																																										
MW-35	1822308	3	X	X	X	X	X	X	2/10/05	10:00	X																																																																																																																																																																																																																																																																																										
MW-36	1822309	3	X	X	X	X	X	X	2/10/05	9:45	X																																																																																																																																																																																																																																																																																										
MW-23X	1822310	3	X	X	X	X	X	X	2/10/05	8:55	X																																																																																																																																																																																																																																																																																										
EW-43.	1822311	3	X	X	X	X	X	X	2/10/05	10:10	X																																																																																																																																																																																																																																																																																										
Sample Received Intact:	Yes	No									Temperature received:	Ice	No Ice																																																																																																																																																																																																																																																																																								
Received by sample (Sign & Print Name)	<u>E.L. Anderson</u>		Date	Time									Received by (Sign & Print Name)	<u>2/10/05</u>																																																																																																																																																																																																																																																																																							
Relinquished by	<u>AMERICAN ANALYTICS</u>		Date	Time									Received by	<u>2/10/05</u>																																																																																																																																																																																																																																																																																							
Relinquished by	<u>AMERICAN ANALYTICS</u>		Date	Time									Received by	<u>2/10/05</u>																																																																																																																																																																																																																																																																																							
Relinquished by	<u>AMERICAN ANALYTICS</u>		Date	Time									Received by laboratory	Date	Time																																																																																																																																																																																																																																																																																						
Relinquished by	<u>AMERICAN ANALYTICS</u>		Date	Time									Received by laboratory	Date	Time																																																																																																																																																																																																																																																																																						

								#05 FEB 10 PM 3:45							
								Lab Work No. 14-12							
								A49431							



LABORATORY ANALYSIS RESULTS

Page 1 of 1

Client: Naval Base Ventura County
Project No.: 29865975.01000
Project Name: PT. Mugu Bld 161
Sample Matrix: Water
Method: EPA 8260B (BTEX, MTBE)

AA Project No.: A49424
Date Received: 03/02/04
Date Reported: 03/17/04
Units: ug/L

Date Sampled: 03/02/04
Date Analyzed: 03/12/04
AA ID No.: 168475
Client ID No.: RAW WATER

Dilution Factor: 1.0

MDL

MRL

Compounds:

Benzene	6.3	0.1000	0.5
Ethylbenzene	2.7	0.2000	0.5
Methyl tert-Butyl Ether	51	0.5000	2
Toluene	1.8	0.2000	0.5
m,p-Xylenes	56	0.3000	1
o-Xylene	7.3	0.2000	0.5

MRL: Method Reporting Limit

J: Estimated Value

MDL: Method Detection Limit

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Page 1 of 1

Client: Naval Base Ventura County
Project No.: 29865975.01000
Project Name: PT. Mugu Bld 161
Sample Matrix: Water
Method: Gasoline Range Org. by GC/MS

AA Project No.: A49424
Date Received: 03/02/04
Date Reported: 03/17/04
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	DF	Results	MDL	MRL
168475	RAW WATER	03/02/04	03/12/04	1.0	780	11.00C	100

MRL: Method Reporting Limit

J: Estimated Value

MDL: Method Detection Limit

DF: Dilution Factor

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: PT. Mugu Bld 161
Method: EPA 8260B (BTEX, MTBE)
Sample ID: Reagent Blank

Project No.: 29865975.01000
AA Project No.: A49424
Date Analyzed: 03/12/04
Date Reported: 03/17/04

Compounds	Results	
	ug/L	MRL
Benzene	<0.5	0.5
Ethylbenzene	<0.5	0.5
Methyl tert-Butyl Ether	<2	2
Toluene	<0.5	0.5
m,p-Xylenes	<1	1
o-Xylene	<0.5	0.5

MRL: Method Reporting Limit

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: PT. Mugu Bld 161
Method: Gasoline Range Org. by GC/MS
Sample ID: Reagent Blank

Project No.: 29865975.01000
AA Project No.: A49424
Date Analyzed: 03/12/04
Date Reported: 03/17/04

Compounds	Results	MRL
	ug/L	
Gasoline Range Organics	<100	100

MRL: Method Reporting Limit

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: PT. Mugu Bld 161
Method: EPA 8260B (BTEX, MTBE)
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No.: 29865975.01000
AA Project No. A49424
Date Analyzed: 03/12/04
Date Reported: 03/17/04

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Benzene	17.0	85	65 - 135
Ethylbenzene	16.7	84	77 - 123
Toluene	15.3	77	66 - 134
o-Xylene	16.4	82	73 - 127

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: PT. Mugu Bld 161
Method: Gasoline Range Org. by GC/MS
Sample ID: Laboratory Control Standard
Concentration: 500 ug/L

Project No.: 29865975.01000
AA Project No. A49424
Date Analyzed: 03/12/04
Date Reported: 03/17/04

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Gasoline Range Organics	490	98	48 - 152

Eydie Schwartz
Project Manager



Client: Naval Base Ventura County
Project No.: N62474-97-A-1008
Project Name: Pt Mugu Bld. 161 Remediation
Sample Matrix: Water

AA Project No.: A49426
Date Received: 07/01/04

Case Narrative

On July 1, 2004, American Analytics received 1 water sample for analysis. Ice was present in the cooler and the containers were in good condition. The samples were analyzed by EPA 8260 for BTEX, MTBE and Gasoline.

All results are reported in a MDL/MRL/J format.

The Matrix Spike / Matrix Spike Duplicate for method EPA 8260B is Batch QC. The Treated Water sample was used for spiking purposes.

For QC purposes a LCS/DLCS was analyzed for the Gasoline by EPA 8260B.

A handwritten signature in black ink that reads "Eydie Schwartz".

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Page 1 of 1

Client: Naval Base Ventura County
Project No.: N62474-97-A-1008
Project Name: Pt. Mugu Bld. 161 Remediation
Sample Matrix: Water
Method: EPA 8260B (BTEX, MTBE)

AA Project No.: A49426
Date Received: 07/01/04
Date Reported: 07/07/04
Units: ug/L

Date Sampled: 07/01/04
Date Analyzed: 07/02/04
AA ID No.: 173689
Client ID No.: Raw water
Dilution Factor: 1.0

Compounds:		MDL	MRL
Benzene	9.7	0.1000	0.5
Ethylbenzene	1.2	0.2000	0.5
Methyl tert-Butyl Ether	13	0.5000	2
Toluene	<0.5	0.2000	0.5
m,p-Xylenes	3.5	0.3000	1
o-Xylene	1.5	0.2000	0.5

MRL: Method Reporting Limit

J: Estimated Value

MDL: Method Detection Limit

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Page 1 of 1

Client: Naval Base Ventura County
Project No.: N62474-97-A-1008
Project Name: Pt. Mugu Bld. 161 Remediation
Sample Matrix: Water
Method: Gasoline Range Org. by GC/MS

AA Project No.: A49426
Date Received: 07/01/04
Date Reported: 07/07/04
Units: mg/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	DF	Results	MDL	MRL
173689	Raw water	07/01/04	07/02/04	1.0	0.13	0.011	0.1

MRL: Method Reporting Limit

J: Estimated Value

MDL: Method Detection Limit

DF: Dilution Factor

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Pt. Mugu Bld. 161 Remediation
Method: EPA 8260B (BTEX, MTBE)
Sample ID: Reagent Blank

Project No.: N62474-97-A-1008
AA Project No.: A49426
Date Analyzed: 07/02/04
Date Reported: 07/07/04

Compounds	Results	
	ug/L	MRL
Benzene	<0.5	0.5
Ethylbenzene	<0.5	0.5
Methyl tert-Butyl Ether	<2	2
Toluene	<0.5	0.5
m,p-Xylenes	<1	1
o-Xylene	<0.5	0.5

MRL: Method Reporting Limit

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Pt. Mugu Bld. 161 Remediation
Method: Gasoline Range Org. by GC/MS
Sample ID: Reagent Blank

Project No.: N62474-97-A-1008
AA Project No.: A49426
Date Analyzed: 07/02/04
Date Reported: 07/07/04

Compounds	Results	MRL
	mg/L	
Gasoline Range Organics	<0.1	0.1

MRL: Method Reporting Limit

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Pt. Mugu Bld. 161 Remediation
Method: EPA 8260B (BTEX, MTBE)
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No.: N62474-97-A-1008
AA Project No. A49426
Date Analyzed: 07/02/04
Date Reported: 07/07/04

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Benzene	16.1	81	65 - 135
Ethylbenzene	18.2	91	77 - 123
Toluene	17.2	86	66 - 134
o-Xylene	20.5	103	73 - 127

Eydie Schwartz
Project Manager

American Analytics • 9765 Eton Avenue, Chatsworth, California 91311
Tel: (818) 998 - 5547 • Fax: (818) 998 - 7258



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Pt. Mugu Bld. 161 Remediation
Method: Gasoline Range Org. by GC/MS
Sample ID: Laboratory Control Standard
Concentration: 0.5 mg/L

Project No.: N62474-97-A-1008
AA Project No. A49426
Date Analyzed: 07/02/04
Date Reported: 07/07/04

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Gasoline Range Organics	0.51	102.0	48.0 - 152

Eydie Schwartz
Project Manager

Laboratory Control Sample/Duplicate Laboratory Control Sample

Client: Naval Base Ventura County

Project No.: N62474-97-A-1008

Project Name: Pt. Mugu Bld. 161 Remediation

Sample Matrix: Water

Method: EPA 8260B (Gasoline)

AA Project No.: A49426

Concentration: 0.5 ug/L

Date Analyzed: 07/02/04

Compounds	Result (ug/L)	Spike Recovery	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD	Accept. Rec. Range (%)
		(%)	(ug/L)	(%)		
Gasoline	0.44	88	0.51	102	15	80-120

RPD acceptance limits are less than or equal to 15.

Matrix Spike/Duplicate Matrix Spike

Client: Naval Base Ventura County
Project No.: N62474-97-A-1008
Project Name: Pt. Mugu Bld. 161 Remediation
Sample Matrix: Water
Method: EPA 8260B (BTEX, Oxygenates)

AA Project No.: A49426
Date Analyzed: 07/02/04
AA ID NO.: Batch QC
Concentration: 20 ug/L

Compounds	Result (ug/L)	Spike Recovery	Dup.	Spike/Dup. Recovery	RPD	Accept. Rec. Range
		(%)	Result (ug/L)	(%)		(%)
Benzene	16.8	84	16.6	83	1	50-150
Ethylbenzene	17.4	87	17.5	88	1	50-150
Methyl tert-Butyl Ether	21.0	105	19.9	100	5	50-150
Toluene	16.6	83	16.9	85	2	50-150
o-Xylene	18.8	94	19.0	95	1	50-150

Surrogate Recoveries

Client: Naval Base Ventura County

AA Project No.: A49426

Project No.: N62474-97-A-1008

Units: %

Project Name: Pt. Mugu Bld. 161 Remediation

Sample Matrix: Water

Method: EPA 8260B (BTEX, MTBE)

Surrogate Recovery in %

AA ID No.	Client ID No.		S1	S2	S3
173689	Raw Water		109	88	94
070204BLK	Laboratory Blank		112	97	98
070204MS	Treated Water Matrix Spike		113	89	99
070204DMS	Treated Water Duplicate Matrix Spike		113	92	95
070204LCS	Laboratory Control Sample		110	96	98

Acceptance Ranges

S1- Dibromofluoromethane	80-120
S2- Toluene-d8	88-110
S3- Bromofluorobenzene	86-115



Eydie Schwartz
Project Manager

Surrogate Recoveries

Client: Naval Base Ventura County

Project No.: N62474-97-A-1008

Project Name: Pt. Mugu Bld. 161 Remediation

Sample Matrix: Water

Method: EPA 8260B (Gasoline)

AA Project No.: A49426

Units: %

AA ID No.	Client ID No.	Surrogate Recovery in %		
		S1		
173689	Raw Water	88		
070204BLK	Laboratory Blank	95		
070204LCS	Laboratory Control Sample	82		
070204DLCS	Duplicate Laboratory Control Sample	79		

Acceptance Ranges

S1- Toluene-d8

75-110



Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Page 1 of 1

Client: Naval Base Ventura County
Project No.: N/A
Project Name: Building 161 Remediation
Sample Matrix: Water
Method: EPA 8260B (BTEX, MTBE)

AA Project No.: A49427
Date Received: 09/02/04
Date Reported: 09/15/04
Units: ug/L

Date Sampled: 09/02/04
Date Analyzed: 09/14/04
AA ID No.: 176211
Client ID No.: Raw Water
Dilution Factor: 1.0

Compounds:		MDL	MRL
Benzene	1.9	0.1000	0.5
Ethylbenzene	<0.5	0.2000	0.5
Methyl tert-Butyl Ether	17	0.5000	2
Toluene	<0.5	0.2000	0.5
m,p-Xylenes	3.0	0.3000	1
o-Xylene	1.4	0.2000	0.5

MRL: Method Reporting Limit

J: Estimated Value

MDL: Method Detection Limit

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Page 1 of 1

Client: Naval Base Ventura County
Project No.: N/A
Project Name: Building 161 Remediation
Sample Matrix: Water
Method: Gasoline Range Org. by GC/MS

AA Project No.: A49427
Date Received: 09/02/04
Date Reported: 09/15/04
Units: mg/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	DF	Results	MDL	MRL
176211	Raw Water	09/02/04	09/14/04	1.0	0.061J	0.011	0.1

MRL: Method Reporting Limit

J: Estimated Value

MDL: Method Detection Limit

DF: Dilution Factor

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Building 161 Remediation
Method: EPA 8260B (BTEX, MTBE)
Sample ID: Reagent Blank

Project No.: N/A
AA Project No.: A49427
Date Analyzed: 09/14/04
Date Reported: 09/15/04

Compounds	Results	
	ug/L	MRL
Benzene	<0.5	0.5
Ethylbenzene	<0.5	0.5
Methyl tert-Butyl Ether	<2	2
Toluene	<0.5	0.5
m,p-Xylenes	<1	1
o-Xylene	<0.5	0.5

MRL: Method Reporting Limit

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Building 161 Remediation
Method: Gasoline Range Org. by GC/MS
Sample ID: Reagent Blank

Project No.: N/A
AA Project No.: A49427
Date Analyzed: 09/14/04
Date Reported: 09/15/04

Compounds	Results	MRL
	mg/L	
Gasoline Range Organics	<0.1	0.1

MRL: Method Reporting Limit

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Building 161 Remediation
Method: EPA 8260B (BTEX, MTBE)
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No.: N/A
AA Project No. A49427
Date Analyzed: 09/14/04
Date Reported: 09/15/04

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Benzene	22.8	114	65 - 135
Ethylbenzene	21.1	106	77 - 123
Toluene	18.9	95	66 - 134
o-Xylene	20.9	105	73 - 127

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Building 161 Remediation
Method: Gasoline Range Org. by GC/MS
Sample ID: Laboratory Control Standard
Concentration: 0.5 mg/L

Project No.: N/A
AA Project No. A49427
Date Analyzed: 09/14/04
Date Reported: 09/15/04

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Gasoline Range Organics	0.41	82.0	48.0 - 152

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Building 161 Remediation
Method: EPA 8260B (BTEX, MTBE)
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No: 176211
Project No.: N/A
AA Project No. A49427
Date Analyzed: 09/14/04
Date Reported: 09/15/04

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept. Rec. Range (%)
Benzene	23.4	117	25.6	128	9	50 - 150
Ethylbenzene	19.4	97	20.6	103	6	50 - 150
Methyl tert-Butyl Ether	26.1	131	27.9	140	7	50 - 150
Toluene	17.0	85	17.6	88	3	50 - 150
o-Xylene	19.4	97	20.4	102	5	50 - 150

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Page 1 of 1

Client: Naval Base Ventura County
Project No.: NA
Project Name: Building 161 Remediation
Sample Matrix: Water
Method: EPA 8260B (BTEX, MTBE)

AA Project No.: A49430
Date Received: 12/02/04
Date Reported: 12/13/04
Units: ug/L

Date Sampled: 12/02/04
Date Analyzed: 12/09/04
AA ID No.: 179877
Client ID No.: Raw water
Dilution Factor: 1.0

		MDL	MRL
Compounds:			
Benzene	5.4	0.1000	0.5
Ethylbenzene	2.0	0.2000	0.5
Methyl tert-Butyl Ether	37	0.5000	2
Toluene	1.3	0.2000	0.5
m,p-Xylenes	10	0.3000	1
o-Xylene	4.2	0.2000	0.5

MRL: Method Reporting Limit

J: Estimated Value

MDL: Method Detection Limit

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Page 1 of 1

Client: Naval Base Ventura County
Project No.: NA
Project Name: Building 161 Remediation
Sample Matrix: Water
Method: Gasoline Range Org. by GC/MS

AA Project No.: A49430
Date Received: 12/02/04
Date Reported: 12/13/04
Units: mg/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	DF	Results	MDL	MRL
179877	Raw water	12/02/04	12/09/04	1.0	0.12	0.011	0.1

MRL: Method Reporting Limit

J: Estimated Value

MDL: Method Detection Limit

DF: Dilution Factor

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Building 161 Remediation
Method: EPA 8260B (BTEX, MTBE)
Sample ID: Reagent Blank

Project No.: NA
AA Project No.: A49430
Date Analyzed: 12/09/04
Date Reported: 12/13/04

Compounds	Result	MRL
	ug/L	
Benzene	<0.5	0.5
Ethylbenzene	<0.5	0.5
Methyl tert-Butyl Ether	<2	2
Toluene	<0.5	0.5
m,p-Xylenes	<1	1
o-Xylene	<0.5	0.5

MRL: Method Reporting Limit

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Building 161 Remediation
Method: Gasoline Range Org. by GC/MS
Sample ID: Reagent Blank

Project No.: NA
AA Project No.: A49430
Date Analyzed: 12/09/04
Date Reported: 12/13/04

Compounds	Result mg/L	MRL
Gasoline Range Organics	<0.1	0.1

MRL: Method Reporting Limit

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Building 161 Remediation
Method: EPA 8260B (BTEX, MTBE)
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No.: NA
AA Project No. A49430
Date Analyzed: 12/09/04
Date Reported: 12/13/04

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Benzene	22.6	113	65 - 135
Ethylbenzene	22.9	115	77 - 123
Toluene	20.9	105	66 - 134
o-Xylene	24.3	122	73 - 127

Eydie Schwartz
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Naval Base Ventura County
Project Name: Building 161 Remediation
Method: Gasoline Range Org. by GC/MS
Sample ID: Laboratory Control Standard
Concentration: 0.5 mg/L

Project No.: NA
AA Project No. A49430
Date Analyzed: 12/09/04
Date Reported: 12/13/04

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Gasoline Range Organics	0.529	106.0	48.0 - 152

Eydie Schwartz

Eydie Schwartz
Project Manager

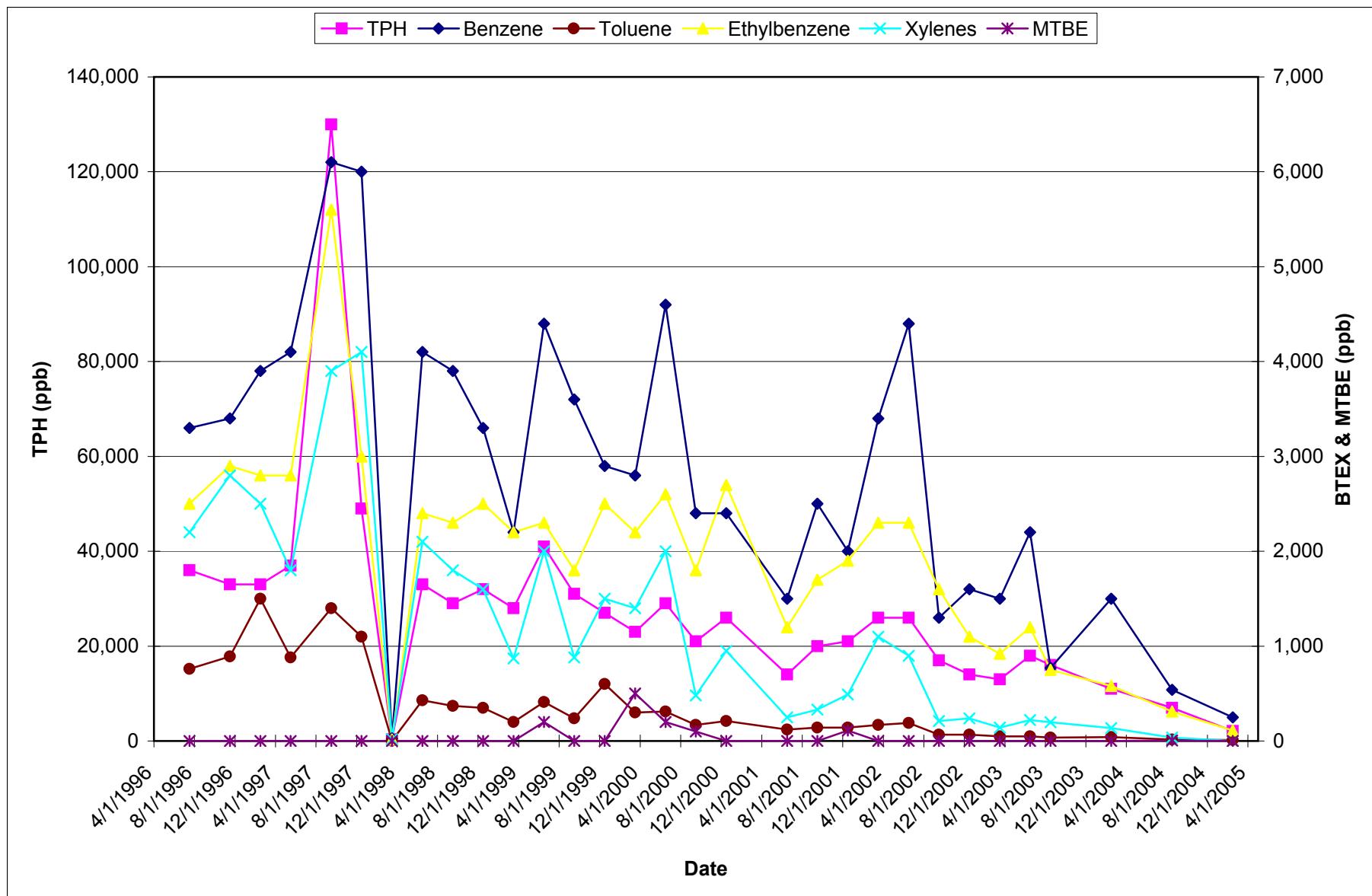
1449430

American Analytics		Department of the Navy		CHAIN OF CUSTODY		Page 1 of 1	
Client	NBVCT Environ. Div.	Site	1, Code N45V	Project	Building 161 Remediation	Method of Shipment	
Project Manager	Point Mugu, CA 93042-5003	Quantity		Telephone No.	805-869-1011	Fax No.	
Contract No.	NB32474-97-A-1008	Telephone No.	805-869-3210	Special Collection Limit Reporting			
Test one sample only from each sample set. MDL / PCRL f.u.							
Matrix	Prev.	Sample ID	AB Sample No.	No. of Contaminants	Sampling Date	Sampling Time	Turn Around Time (business days)
Raw Water	179877	3	X		12/20/04	10:00 X	10
							Special GAC
							Sub GAC Attach
							M A R K S
Temperature received: Ice No Ice							
Sample Received Intent:	Yes	No	Date	Time	Received by (Sign & Print Name)		Lab Work No.
Released by Sampler (Sign & Print Name)	<i>Prokita, Michael J. Jr.</i>		12/2/04	11:40	<i>E. Schmitz, Jr.</i>		
Released by Analyzer	<i>John T. L.</i>		12/2/04	12:42	Received by		
Released by			Date	Time	Received by Laboratory		Date Time
							<i>12/4/04</i>
							<i>2 PM 12:45</i>

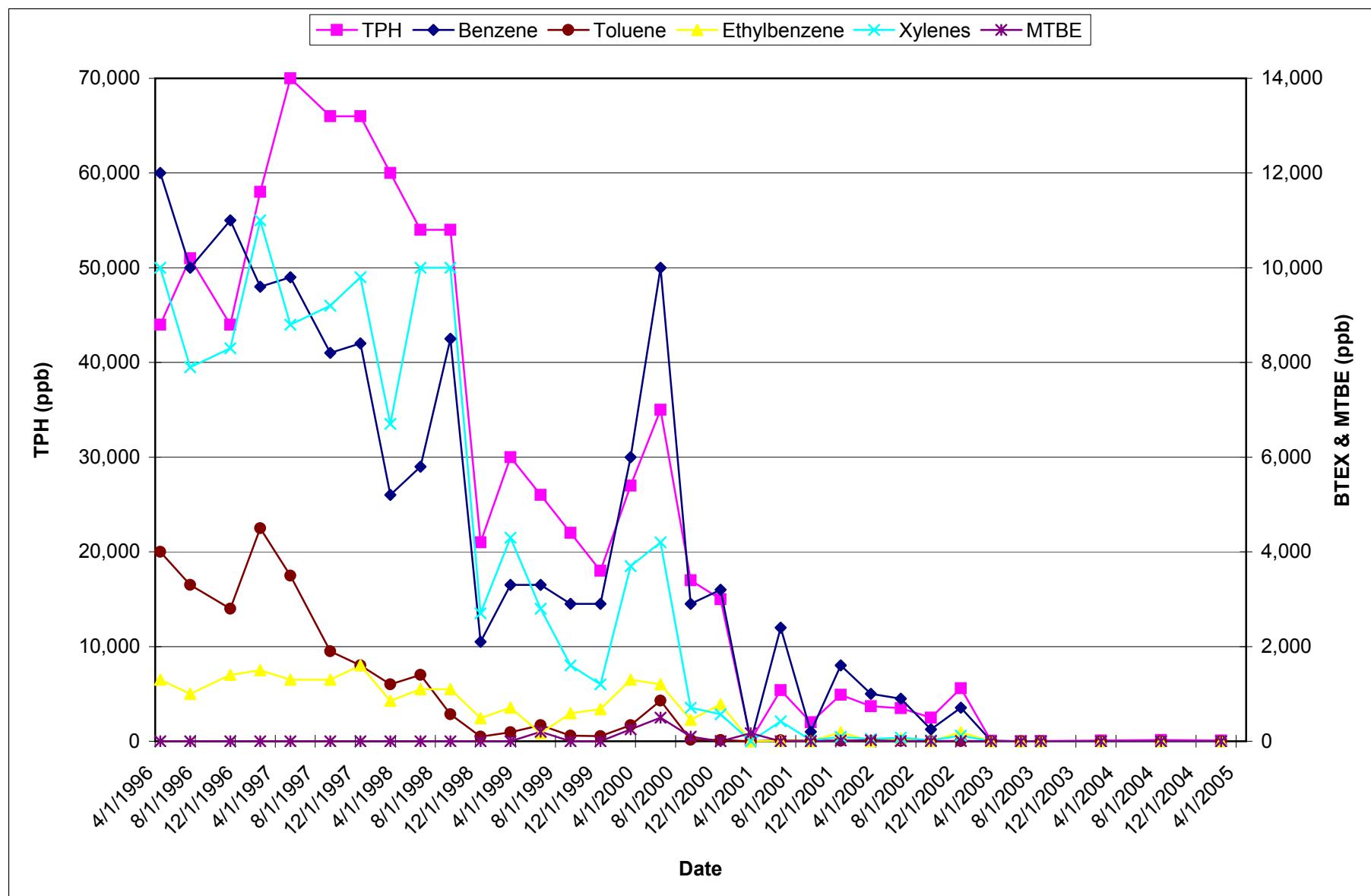
Appended on back order 12/20/04 2 PM 12:45



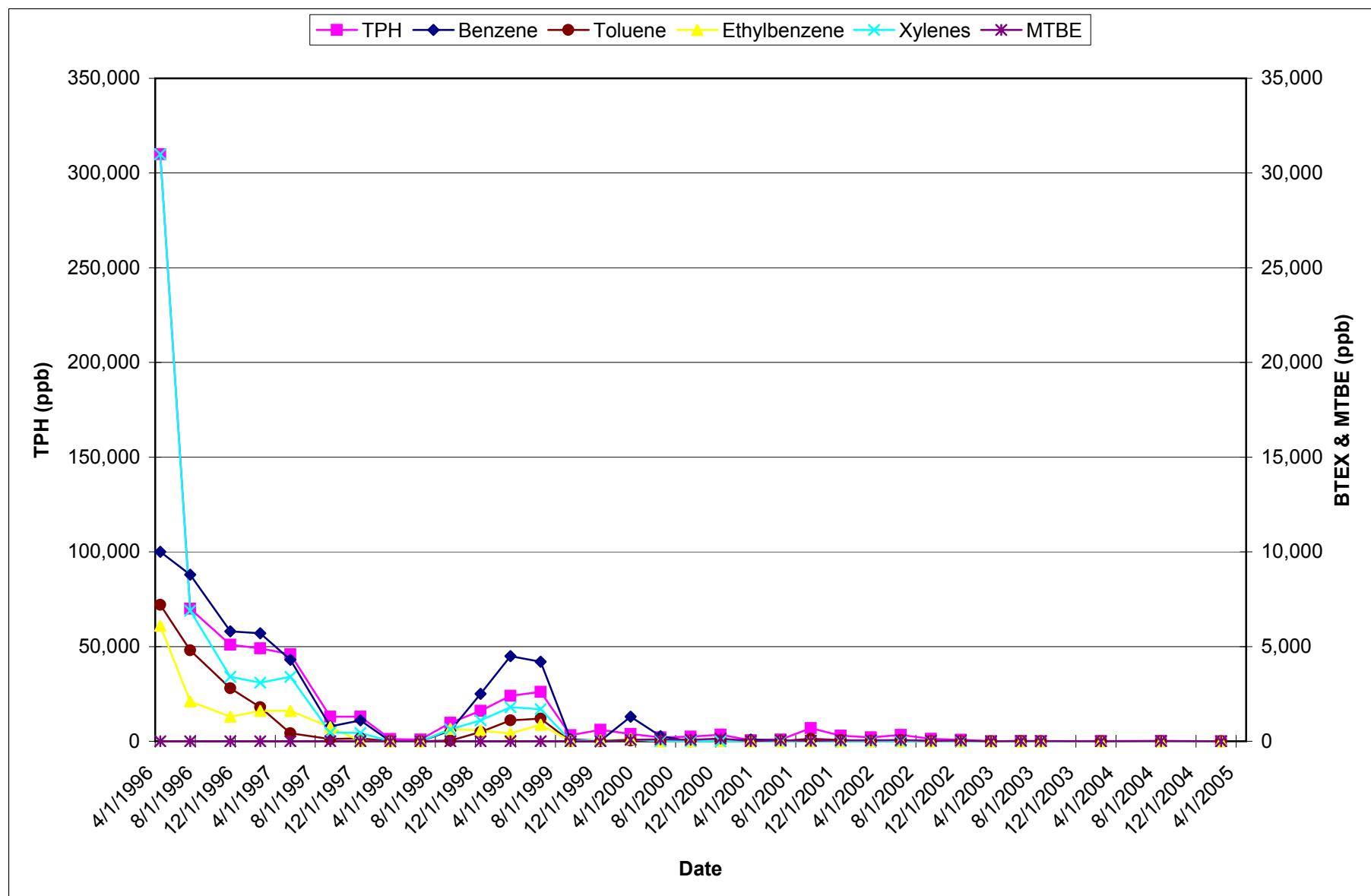
MW-13
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA



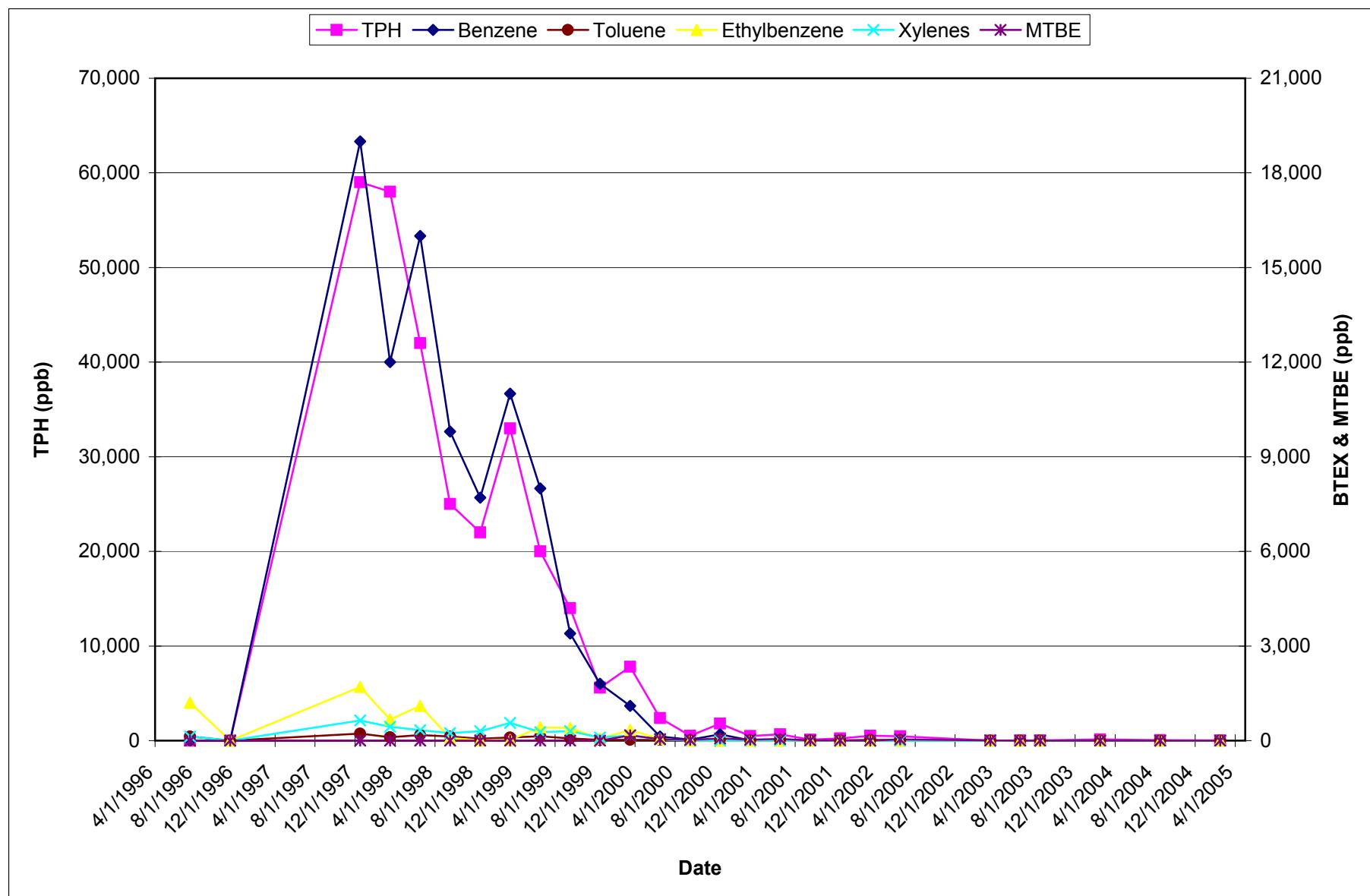
MW-17
 NAVAL BASE VENTURA COUNTY
 NEX GAS STATION
 POINT MUGU, CALIFORNIA



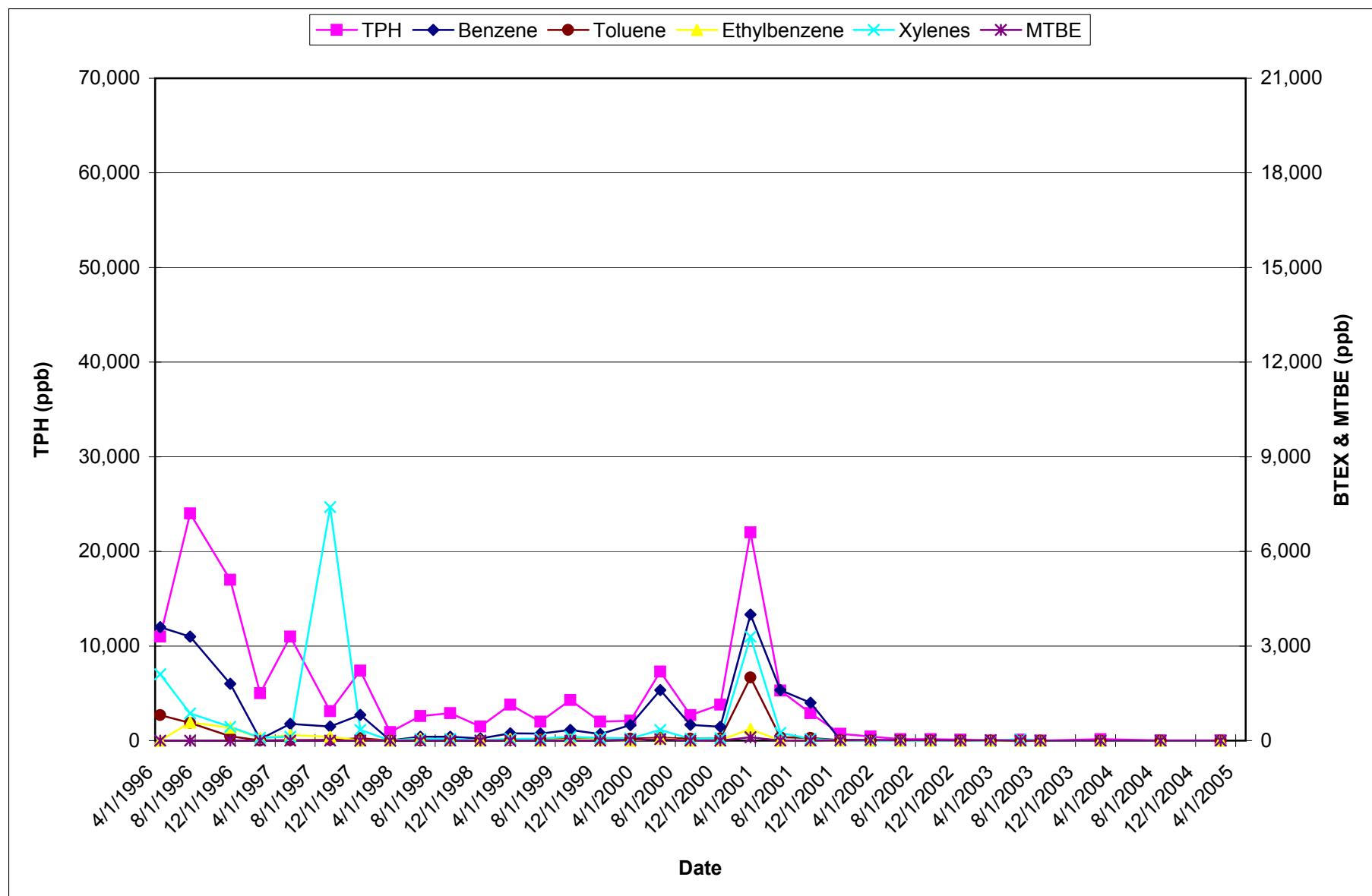
MW-21
 NAVAL BASE VENTURA COUNTY
 NEX GAS STATION
 POINT MUGU, CALIFORNIA



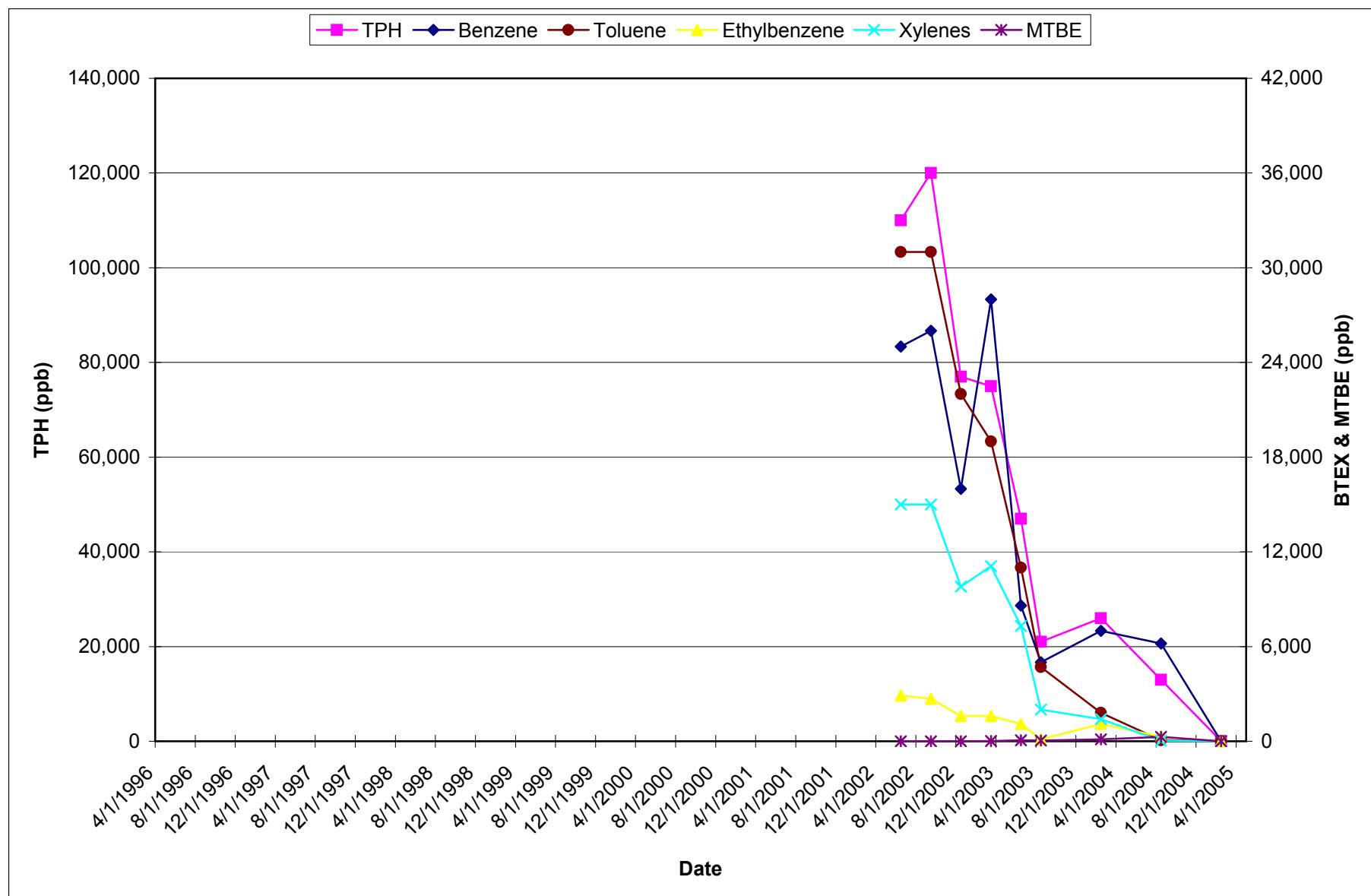
MW-23X
 NAVAL BASE VENTURA COUNTY
 NEX GAS STATION
 POINT MUGU, CALIFORNIA



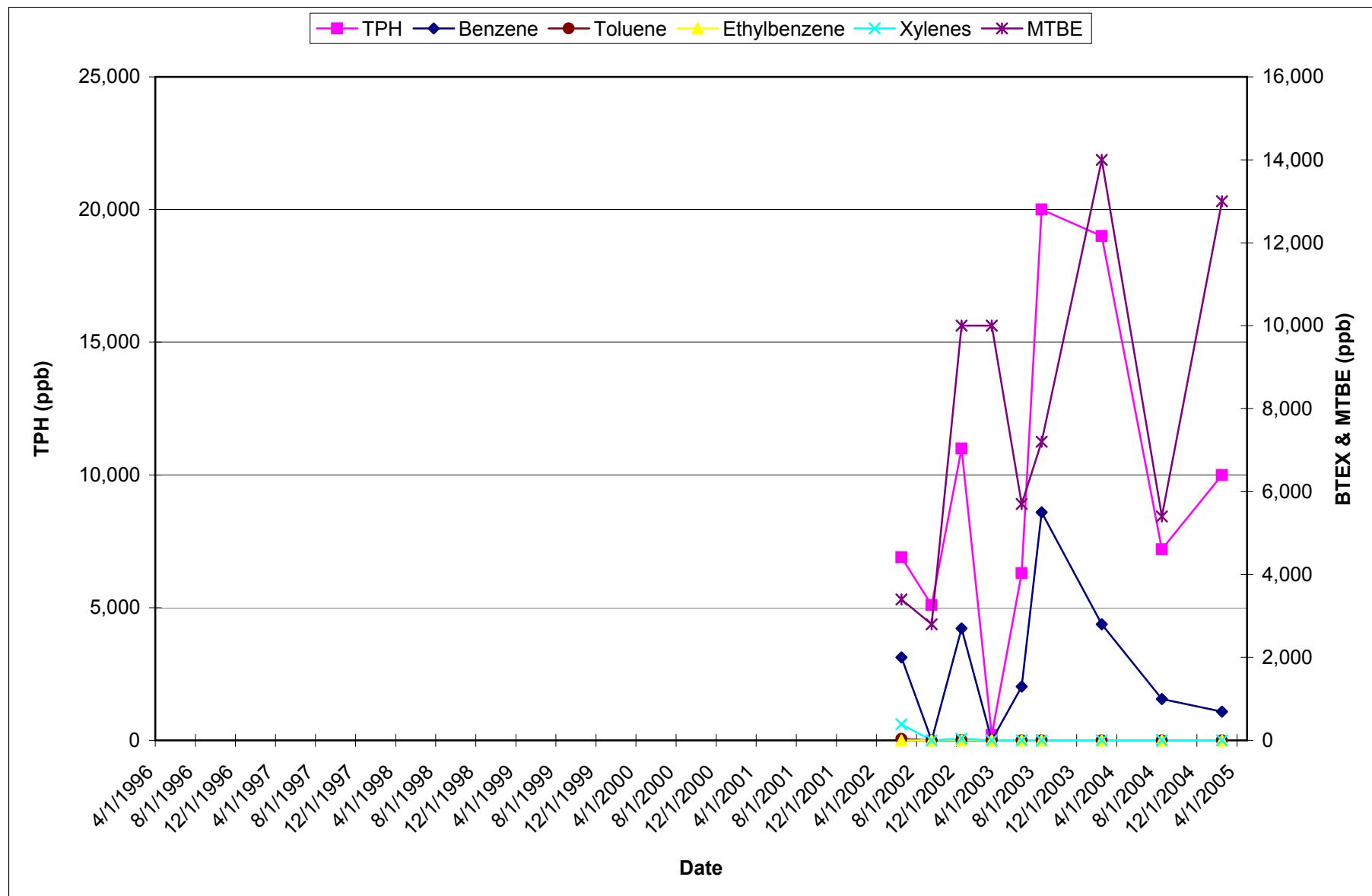
MW-25
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA



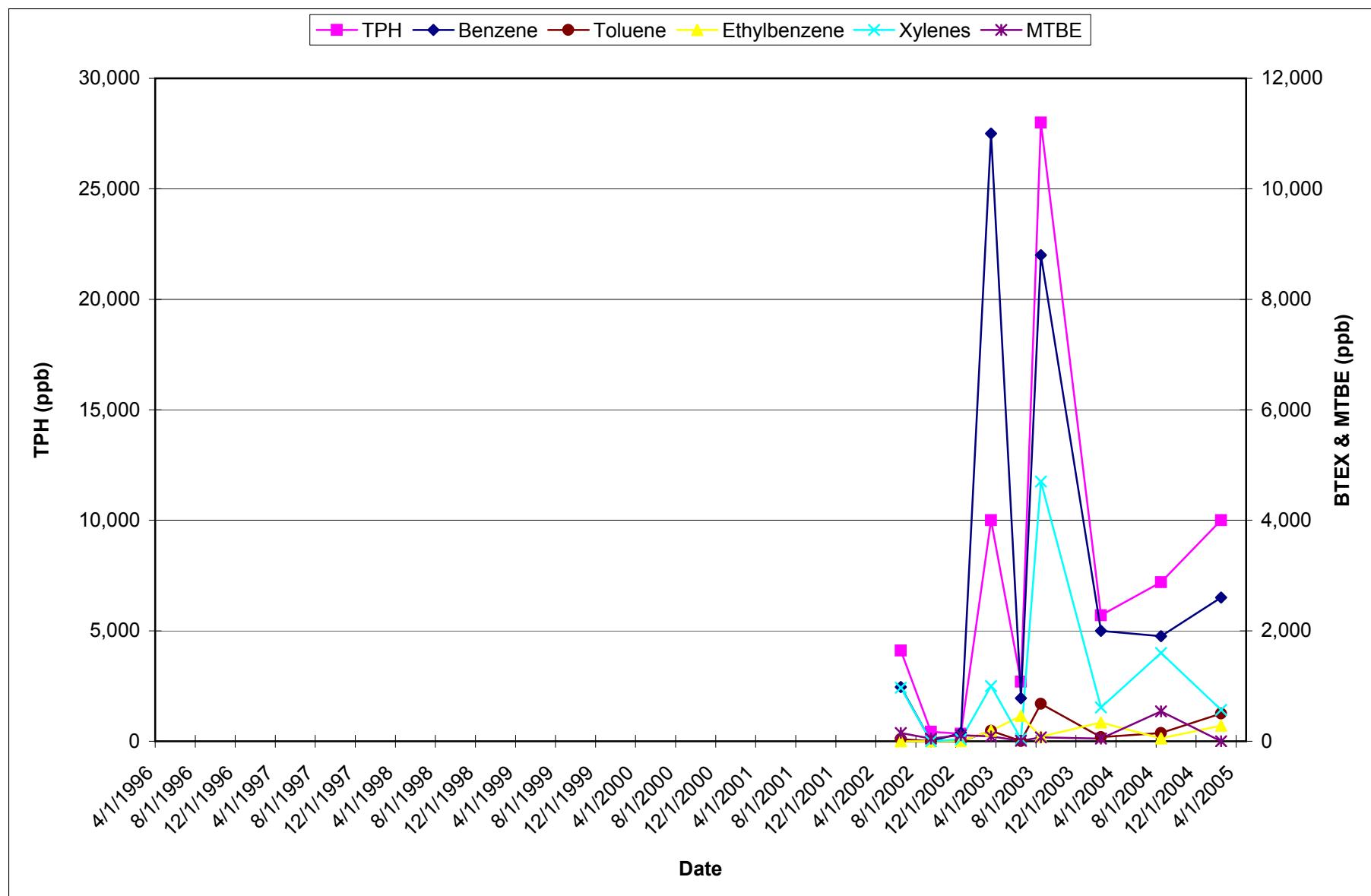
MW-31
 NAVAL BASE VENTURA COUNTY
 NEX GAS STATION
 POINT MUGU, CALIFORNIA



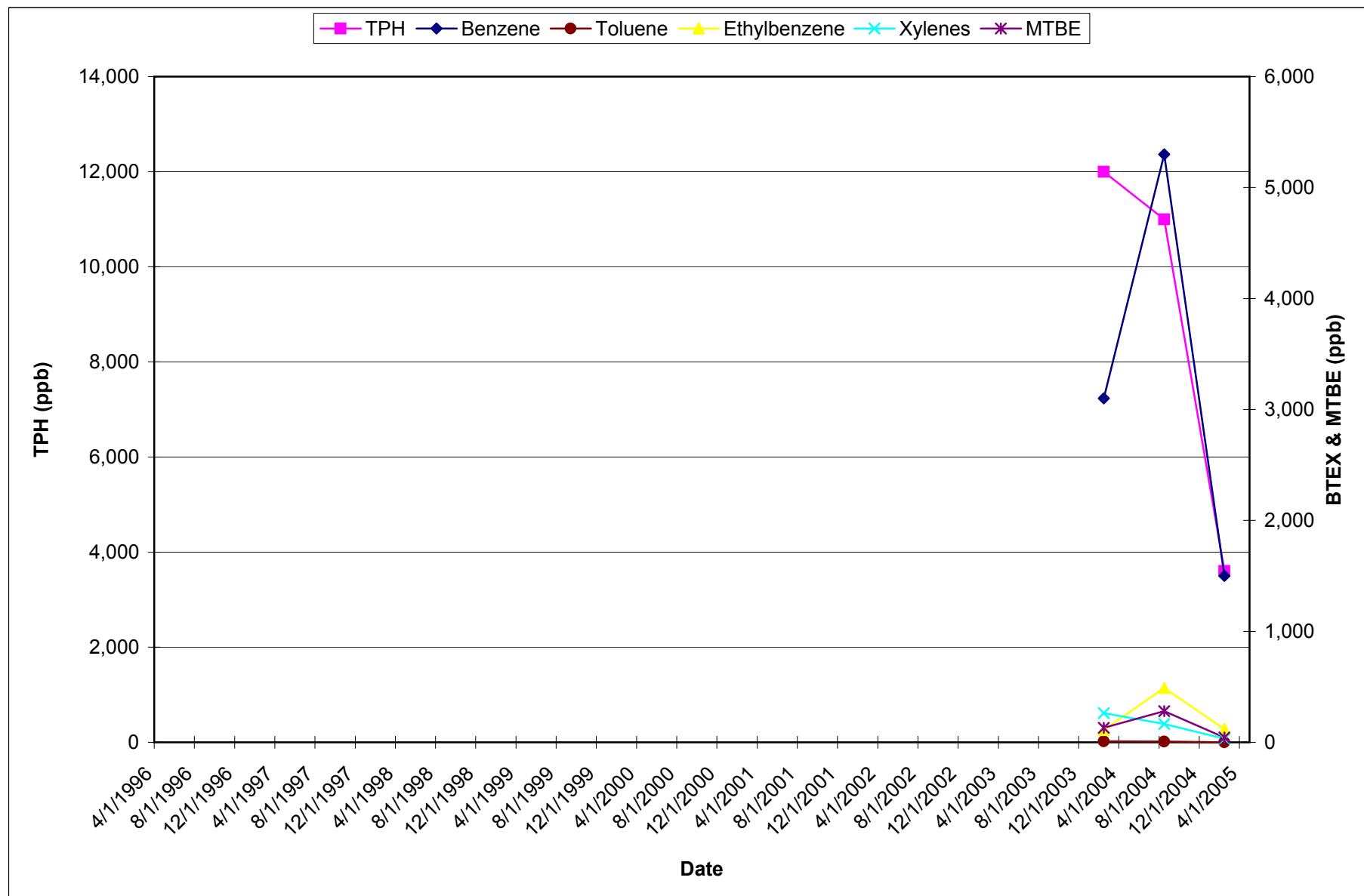
MW-32
 NAVAL BASE VENTURA COUNTY
 NEX GAS STATION
 POINT MUGU, CALIFORNIA



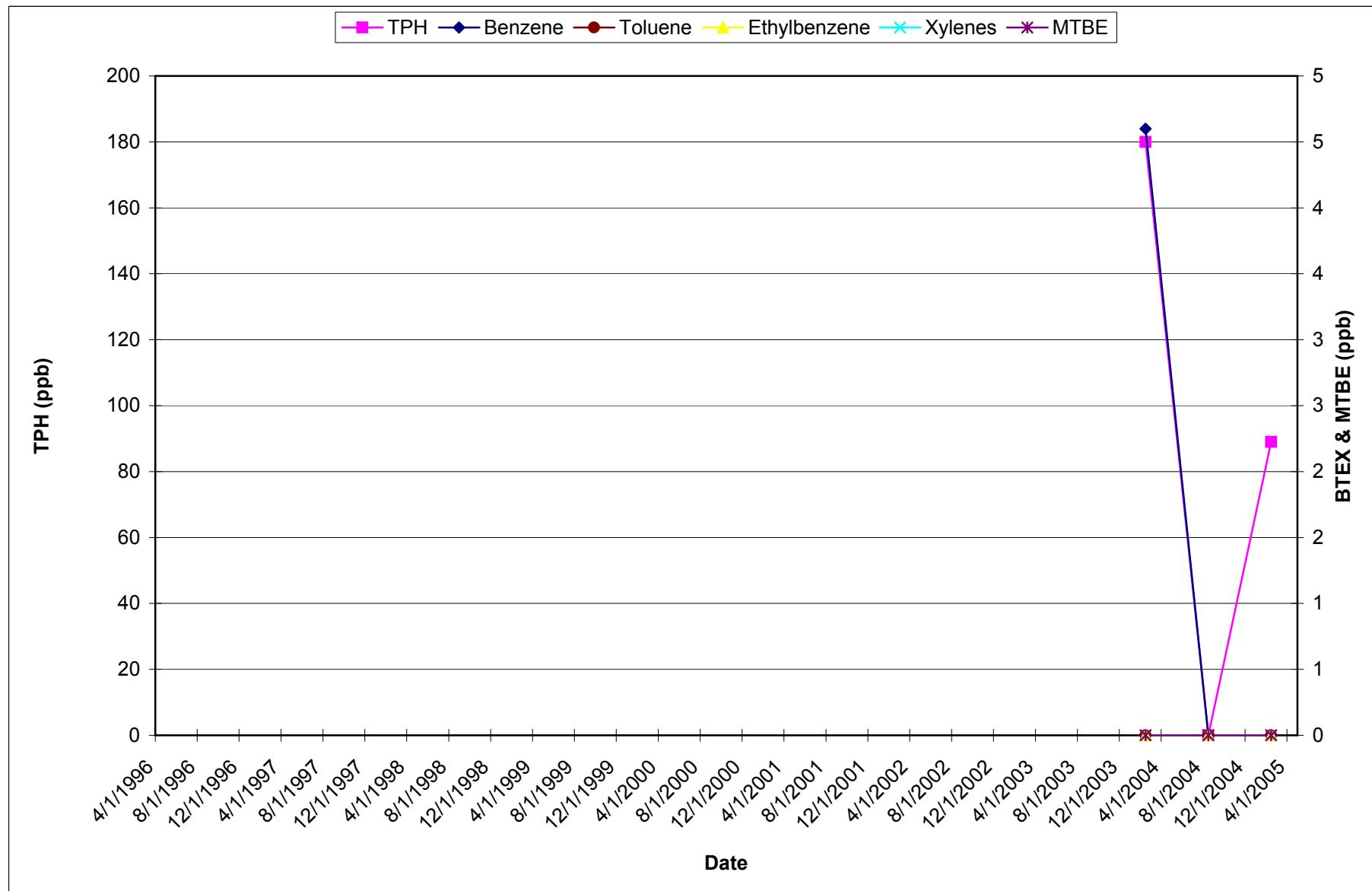
MW-33
 NAVAL BASE VENTURA COUNTY
 NEX GAS STATION
 POINT MUGU, CALIFORNIA



MW-35
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA



MW-36
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA



EW-43
NAVAL BASE VENTURA COUNTY
NEX GAS STATION
POINT MUGU, CALIFORNIA

